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Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see our Editorial Policies and the Editorial Policy Checklist.

Statistics

For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.

n/a	Confirmed	
☐	☒	The exact sample size (*n*) for each experimental group/condition, given as a discrete number and unit of measurement
☐	☒	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
☒	☐	The statistical test(s) used AND whether they are one- or two-sided *Only common tests should be described solely by name; describe more complex techniques in the Methods section.*
☒	☐	A description of all covariates tested
☒	☐	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
☒	☐	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
☒	☐	For null hypothesis testing, the test statistic (e.g. *F*, *t*, *r*) with confidence intervals, effect sizes, degrees of freedom and *P* value noted *Give P values as exact values whenever suitable.*
☒	☐	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
☒	☐	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
☒	☐	Estimates of effect sizes (e.g. Cohen's *d*, Pearson's *r*), indicating how they were calculated

Our web collection on statistics for biologists contains articles on many of the points above.

Software and code

Policy information about availability of computer code

Data collection	Flow cytometry data was collected using BD FACSDiva version 4.0.
Data analysis	Sequencing data were analyzed using Cell Ranger Cell Ranger v.3.1.0 (10x Genomics), Seurat v.3.2.3, Scater v.1.18.3 , scran version 1.6.6. mvoutlier v.2.0.9, harmony v.1.0, clustree v.0.4.3, ScDblFinder v.1.4.0, VennDiagram v.1.6.20, dplyr v.1.0.3, cowplot v.1.1.1, ggplot2 v.3.3.4 and Matrix v.1.3-2. Flow cytometry data was analyzed using FlowJo v. 10 and Cytobank.

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.

Data

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

The scRNA-seq data shown in Figure 4A,B,E is deposited at GEO under GSE128855; Figure 4F under GSE157480. The CITE-seq data shown in Figure 5 is deposited at GEO under GSE163120. The gene-cell count matrices of all these datasets can also be downloaded at www.brainimmuneatlas.org. The CITE-seq data shown in Figure 6 is deposited at GEO under GSE191075.

Field-specific reporting

Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.

☒ Life sciences ☐ Behavioural & social sciences ☐ Ecological, evolutionary & environmental sciences

For a reference copy of the document with all sections, see nature.com/documents/nr-reporting-summary-flat.pdf

Life sciences study design

All studies must disclose on these points even when the disclosure is negative.

Sample size	No statistical methods were used to determine the sample sizes. The number of animals/group was determined according to previous studies cited in our manuscripts: Van Hove et al. 2019 Nature Neuroscience (10.1038/s41593-019-0393-4); Pombo Antunes, Scheyltjens et al. 2021 Nature Neuroscience (10.1038/s41593-020-00789-y) .
Data exclusions	For scRNA-Seq experiments cell filtering was performed as follows: outlier cells were first identified based on 3 metrics (library size, number of expressed genes and mitochondrial proportion) and cells were tagged as outliers when they were 3 median absolute deviation (MADs) away from the median value of each metric across all cells. This filtering was performed using the R package Scater. Secondly, a PCA plot was generated based on the following metrics: 'pct_counts_in_top_100_features', 'total_features_by_counts', 'pct_counts_feature_control', 'total_features_by_counts_feature_control', 'log10_total_counts_endogenous' and 'log10_total_counts_feature_control'. Outlier cells in this PCA plot were identified using the R package mvoutlier. These criteria were pre-established based on previous publications: Van Hove et al., 2019. Nature Neuroscience. DOI: 10.1038/s41593-019-0393-4 ; Shemer et al., 2020. Immunity. DOI: 10.1016/j.immuni.2020.09.018 ; Lun et al., 2016. F1000Res. DOI: 10.12688/f1000research.9501.2
Replication	For Figure 4, choroid plexus (A) (from the lateral and fourth ventricle) from 21 individual mice, dura mater (B) from 18 individual mice, whole brains (E, G) from 4 individual mice (9-week-old male C57BL/6), enriched whole brains (F, H) from 4 individual mice (9-week-old female C57BL/6) was used. For Figure 5 tumour tissue of 2 individual mice (8-9-week-old female C57BL/6) was used per sample and the experiment was repeated 3 independent times. For Figure 6, dura mater from 6 individual mice (12-week-old female C57BL/6) was used.
Randomization	Randomization was not performed, as we did not compare experimental groups.
Blinding	Blinding was not relevant for this study as we did not compare investigator-derived measurements between specific groups. All sequencing data were analyzed by algorithms in an unbiased manner and did not require blinding.

Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

Materials & experimental systems

n/a	Involved in the study
☐	☒ Antibodies
☐	☒ Eukaryotic cell lines
☒	☐ Palaeontology and archaeology
☐	☒ Animals and other organisms
☒	☐ Human research participants
☒	☐ Clinical data
☒	☐ Dual use research of concern

Methods

n/a	Involved in the study
☒	☐ ChIP-seq
☐	☒ Flow cytometry
☒	☐ MRI-based neuroimaging

Antibodies

Antibodies used

Flow cytometry:
antibodies are described in Table 2
CITE-Seq:
Antigen/ Reactivity/ Isotype/ Clone/ Dilution/ Barcode/ Identifier RRID/ Cat. No. BioLegend/ TotalSeq ID/ Gene
CD102/ Mouse/ Rat IgG2a, κ/ 3C4 (MIC2/4)/ 1/500/ GATATTCAGTGCGAC/ AB_2734167/ 105613/ A0104/ Icam2
CD103/ Mouse/ Armenian Hamster IgG/ 2E7/ 1/500/ TTCATTAGCCCGCTG/ AB_2750349/ 121437/ A0201/ Itgae
CD105/ Mouse/ Rat IgG2a, κ/ MJ7/18/ 1/500/ TATCCCTGCCTTGCA/ AB_2800587/ 120421/ A0812/ Eng
CD106/ Mouse/ Rat IgG2a, κ/ 429 (MVCAM.A)/ 1/500/ CGTTCCTACCTACCT/ AB_2783044/ 105725/ A0226/ Vcam1
CD107a/ Mouse/ Rat IgG2a, κ/ 1D4B/ 1/500/ AAATCTGTGCCGTAC/ AB_2810369/ 121635/ A0905/ Lamp1
CD115/ Mouse/ Rat IgG2a, κ/ AFS98/ 1/500/ TTCCGTTGTTGTGAG/ AB_2734198/ 135533/ A0105/ Csf1r
CD117/ Mouse/ Rat IgG2b, κ/ 2B8/ 1/500/ TGCATGTCATCGGTG/ AB_2749960/ 105843/ A0012/ Kit
CD11a/ Mouse/ Rat IgG2a, κ/ M17/4/ 1/500/ AGAGTCTCCCTTTAG/ AB_2783036/ 101125/ A0595/ Itgal

CD134/ Mouse/ Rat IgG1, κ/ OX-86/ 1/500/ CTCACCTACCTATGG/ AB_2750376/ 119426/ A0195/ Tnfrsf4
CD135/ Mouse/ Rat IgG2a, κ/ A2F10/ 1/500/ GTAGCAAGATTCAAG/ AB_2749983/ 135316/ A0098/ Flt3
CD137/ Mouse/ Syrian Hamster IgG/ 17B5/ 1/500/ TCCCTGTATAGATGA/ AB_2783048/ 106111/ A0194/ Tnfrsf9
CD137L (4-1BB)/ Mouse Rat IgG2a, κ/ TKS-1/ 1/500/ CAGTTCAGTACGCAG/ AB_2813955/ 107109/ A0890/ Tnfsf9
CD138/ Mouse/ Rat IgG2a, κ/ 281-2/ 1/500/ GCGTTTGTATGTACT/ AB_2800658/ 142532/ A0810/ Sdc1
CD14/ Mouse/ Rat IgG2a, κ/ Sa14-2/ 1/500/ AACCAACAGTCACGT/ AB_2800591/ 123333/ A0424/ Cd14
CD140a/ Mouse/ Rat IgG2a, κ/ APA5/ 1/500/ GTCATTGCGGTCCTA/ AB_2783094/ 135917/ A0573/ Pdgfra
CD15/ Mouse/ Mouse IgM, κ/ MC-480/ 1/500/ GCTAGTTTGTGCTGC/ AB_2800603/ 125615/ A0076/ Fut4
CD150/ Mouse/ Rat IgG2a, λ/ TC15-12F12.2/ 1/500/ CAACGCCTAGAAACC/ AB_2783055/ 115945/ A0203 Slamf1
CD152/ Mouse/ Armenian Hamster IgG/ UC10-4B9/ 1/500/ AGTGTTTGTCCTGGT/ N/A/ 106325/ A0388/ Ctla4
CD163/ Mouse/ Rat IgG2a, κ/ S15049l/ 1/500/ GAGCAAGATTAAGAC/ AB_2814058/ 155303/ A0417/ Cd163
CD169/ Mouse/ Rat IgG2a, κ/ 3D6.112/ 1/500/ ATTGACGACAGTCAT/ AB_2783106/ 142425/ A0440/ Siglec1
CD16-CD32/ Mouse/ Rat IgG2a, λ/ 93/ 1/500/ TTCGATGCTGGAGCA/ AB_2750532/ 101343/ A0109/ Fcgr3/Fcgr2
CD172a/ Mouse/ Rat IgG1, κ/ P84/ 1/500/ GATTCCCTTGTAGCA/ AB_2800670/ 144033/ A0422/ Sirpa
CD183/ Mouse/ Armenian Hamster IgG/ CX3CR3-173/ 1/500/ GTTCACGCCGTGTTA/ N/A/ 126543/ A0228/ Cxcr3
CD185/ Mouse/ Rat IgG2b, κ/ L138D7/ 1/500/ ACGTAGTCACCTAGT/ AB_2800681/ 145535/ A0846/ Cxcr5
CD19/ Mouse/ Rat IgG2a, κ/ 6D5/ 1/500/ ATCAGCCATGTCAGT/ AB_2749981/ 115559/ A0093/ Cd19
CD192/ Mouse/ Rat IgG2b, κ/ S1203G11/ 1/500/ AGTGCGATCTGCAAC/ AB_2783122/ 150625/ A0426/ Ccr2
CD193/ Mouse/ Rat IgG2a, κ/ J073E5/ 1/500/ TAGAACCGTATCCGT/ AB_2800673/ 144523/ A0808/ Ccr3
CD195/ Mouse/ Armenian Hamster IgG/ HM-CCR5/ 1/500/ ACCAGTTGTCATTAC/ AB_2783049/ 107019/ A0376/ Ccr5
CD196/ Mouse/ Armenian Hamster IgG/ 29-2L17/ 1/500/ CTCTCTGCATTCCTC/ AB_2783083/ 129825/ A0225/ Ccr6
CD197/ Mouse/ Rat IgG2a, κ/ 4B12/ 1/500/ TTATTAACAGCCCAC/ N/A/ 120129/ A0377/ Ccr7
CD1d/ Mouse/ Rat IgG2b, κ/ 1B1/ 1/500/ CAACTTGGCCGAATC/ AB_2800593/ 123529/ A0851/ Cd1d1
CD2/ Mouse/ Rat IgG2b, λ/ RM2-5/ 1/500/ TTGCCGTGTGTTTAA/ AB_2810312/ 100117/ A0892 Cd2
CD20/ Mouse/ Rat IgG2b, κ/ SA275A11/ 1/500/ TCCACTCCCTGTATA/ AB_2734214/ 150423/ A0192/ Ms4a1
CD200/ Mouse/ Rat IgG2a, κ/ OX-90/ 1/500/ TCAATTCCGGTAGTC/ AB_2734191/ 123811/ A0079/ Cd200
CD200R/ Mouse/ Rat IgG2a, κ/ OX-110/ 1/500/ ATTCTTTCCCTCTGT/ AB_2800594/ 123913/ A0807/ Cd200r1
CD200R3/ Mouse/ Rat IgG2a, κ/ Ba13/ 1/500/ ATCAACTTGGAGCAG/ AB_2800657/ 142209/ A0809/ Cd200r3
CD201/ Mouse/ Rat IgG2a, κ/ RCR-16/ 1/500/ TATGATCTGCCCTTG/ AB_2800655/ 141509/ A0439/ Procr
CD204/ Mouse/ Rat IgG2a/ 1F8C33/ 1/500/ AGCTAGACACGTTGT/ AB_2783126/ 154703/ A0448/ Msr1
CD206/ Mouse/ Rat IgG2a, κ/ C068C2/ 1/500/ TCAACTCGGTGTTGC/ N/A/ N/A/ A0173/ Mrc1
CD207/ Mouse, Human/ Mouse IgG2a, κ/ 4C7/ 1/500/ CGATTTGTATTCCCT/ N/A/ N/A/ A0437/ Cd207
CD21-CD35/ Mouse/ Rat IgG2a, κ/ 7E9/ 1/500/ GGATAATTTCGATCC/ AB_2750540/ 123427/ A0107/ Cr2/Cr1
CD22/ Mouse/ Rat IgG1, κ /OX-97/ 1/500/ AGGTCCTCTCTGGAT/ AB_2800614/ 126113/ A0827/ Cd22
CD223/ Mouse/ Rat IgG1, κ/ C9B7W/ 1/500/ ATTCCGTCCCTAAGG/ AB_2783078/ 125229/ A0378/ Lag3
CD226/ Mouse/ Rat IgG2b, κ/ 10E5/ 1/500/ ACGCAGTATTTCCGA/ AB_2810393/ 128823/ A0852/ Cd226
CD23/ Mouse/ Rat IgG2a, κ/ B3V4/ 1/500/ TCTCTTGGAAGATGA/ AB_2750358/ 101635/ A0108/ Fcer2a
CD24 Mouse/ Rat IgG2b, κ M1/69 1/500 TATATCTTTGCCGCA AB_2750380 101841 A0212 Cd24a
CD25/ Mouse/ Rat IgG1, λ/ PC61/ 1/500/ ACCATGAGACACAGT/ AB_2749982/ 102055/ A0097/ Il2ra
CD26 Mouse/ Rat IgG2a, κ H194-112 1/500 ATGGCCTGTCATAAT AB_2810405 137811 A0883 Dpp4
CD27/ Mouse/ Armenian Hamster IgG/ LG.3A10/ 1/500/ CAAGGTATGTCACTG/ AB_2750344/ 124235/ A0191/ Cd27
CD270/ Mouse/ Armenian Hamster IgG/ HMHV-1B18/ 1/500/ GATCCGTGTTGCCTA/ AB_2810403/ 136307/ A0885/ Tnfrsf14
CD272/ Mouse/ Armenian Hamster IgG/ 6A6/ 1/500/ TGACCCTATTGAGAA/ AB_2814041/ 139113/ A0881/ Btla
CD274/ Mouse/ Rat IgG2a, κ/ MIH6/ 1/500/ TCGATTCCACCAACT/ AB_2783125/ 153604/ A0190/ Cd274
CD278/ Human, African Green, Baboon, Cynomolgus, Mouse, Rat, Rhesus, Swine (Pic, Porcine)/ Armenian Hamster IgG/ C398.4A/ 1/500/ CGCGCACCCATTAAA/ AB_2800824/ 313555/ A0171/ Icos
CD279/ Mouse/ Rat IgG2b, κ/ RMP1-30/ 1/500/ GAAAGTCAAAGCACT/ AB_2734169/ 109123/ A0004/ Pdcd1/
CD28/ Mouse/ Syrian Hamster IgG/ 37.51/ 1/500/ ATTAAGAGCGTGTTG/ N/A/ 102129/ A0204/ Cd28
CD29/ Mouse, Rat Armenian/ Hamster IgG/ HMβ1-1/ 1/500/ ACGCATTCCTTGTGT/ AB_2783042/ 102233/ A0570/ Itgb1
CD3/ Mouse/ Rat IgG2b, κ/ 17A2/ 1/500/ GTATGTCCGCTCGAT/ AB_2750533/ 100251/ A0182/ Cd3e
CD300c-d/ Mouse/ Rat IgG2b, κ/ TX52/ 1/500/ GTGATCTAAGATGCG/ AB_2810413/ 148005/ A0876/ Cd300c
CD300LG/ Mouse/ Rat IgG2a, κ/ ZAQ5/ 1/500/ CGGTCCGTATCATTT/ AB_2783116/ 147105/ A0416/ Cd300lg
CD301a/ Mouse/ Rat IgG2a, κ/ LOM-8.7/ 1/500/ TGTATTTACTCACCG/ AB_2783114/ 145611/ A0551/ Clec10a
CD301b/ Mouse/ Rat IgG2a, λ/ URA-1/ 1/500/ CTTGCCTTGCGATTT/ AB_2783115/ 146817/ A0566/ Mgl2
CD304/ Mouse/ Rat IgG2a, κ/ 3E12/ 1/500/ CCAGCTCATTCAACG/ AB_2750383/ 145215/ A0552/ Nrp1
CD309/ Mouse/ Rat IgG2a, κ/ 89B3A5/ 1/500/ AGTTGTCCTGTACGA/ AB_2783066/ 121921/ A0554/ Kdr
CD31/ Mouse/ Rat IgG2a, κ/ 390/ 1/500/ GCTGTAGTATCATGT/ AB_2810335/ 102437/ A0904/ Pecam1
CD314/ Mouse/ Rat IgG1, κ/ CX5/ 1/500/ GAGGCTTATCATTTC/ AB_2814023/ 130215/ A0835/ Klrk1
CD317/ Mouse/ Rat IgG2b, κ/ 927/ 1/500/ TGTGGTAGCCCTTGT/ AB_2800623/ 127027/ A0811/ Bst2
CD326/ Mouse/ Rat IgG2a, κ/ G8.8/ 1/500/ ACCCGCGTTAGTATG/ AB_2800586/ 118237/ A0449/ Epcam
CD335/ Mouse/ Rat IgG2a, κ/ 29A1.4/ 1/500/ CCCTTTCACCTCGAA/ AB_2734199/ 137633/ A0184/ Ncr1
CD34/ Mouse/ Armenian Hamster IgG/ HM34/ 1/500/ GATTCCTTTACGAGC/ AB_2810392/ 128619/ A0857/ Cd34
CD357/ Mouse/ Rat IgG2b, λ/ DTA-1/ 1/500/ GGCACTCTGTAACAT/ AB_2734195/ 126319/ A0193/ Tnfrsf18
CD36/ Mouse/ Armenian Hamster IgG/ HM36/ 1/500/ TTTGCCGCTACGACA/ AB_2800557/ 102621/ A0555/ Cd36
CD366/ Mouse/Rat IgG2a, κ/ RMT3-23/ 1/500/ ATTGGCACTCAGATG/ AB_2734178/ 119729/ A0003/ Havcr2
CD370/ Mouse/ Rat IgG1, κ/ 7H11/ 1/500/ AACTCAGTTGTGCCG/ N/A/ N/A/ A0556/ Clec9a
CD371 Mouse/ Rat IgG2a, κ 5D3/CLEC12A 1/500 GCGAGAAATCTGCAT AB_2800668 143407 A0825 Clec12a
CD38/ Mouse/ Rat IgG2a, κ/ 90/ 1/500/ CGTATCCGTCTCCTA/ AB_2750556/ 102733/ A0557/ Cd38
CD39/ Mouse/ Rat IgG2a, κ/ Duha59/ 1/500/ GCGTATTTAACCCGT/ AB_2800669/ 143813/ A0834/ Entpd1
CD3e/ Mouse/ Armenian Hamster IgG/ 145-2C11/ 1/500/ TAATGCCAGTTGTGC/ AB_2734149/ 100369/ A0094/ Cd3e
CD4/ Mouse/ Rat IgG2a, κ/ RM4-5/ 1/500/ AACAAGACCCTTGAG/ AB_2749956/ 100569/ A0001/ Cd4
CD41/ Mouse/ Rat IgG1, κ/ MWReg30/ 1/500/ ACTTGGATGGACACT/ AB_2800635/ 133937/ A0443/ Itga2b
CD43/ Mouse/ Rat IgG2b/ S11/ 1/500/ TTGGAGGGTTGTGCT/ AB_2750541/ 143211/ A0110/ Spn
CD45R-B220/ Mouse, Human, Cat (Feline)/ Rat IgG2a, κ RA3-6B2/ 1/500/ CCTACACCTCATAAT/ AB_2734158/ 103263/ A0103/ Ptprc
CD48/ Mouse/ Armenian Hamster IgG/ HM48-1/ 1/500/ AGAACCGCCGTAGTT/ AB_2800558/ 103447/ A0429/ Cd48
CD49a/ Mouse/ Armenian Hamster IgG/ HMα1/ 1/500/ CCATTCATTTGTGGC/ AB_2800659/ 142613/ A0850/ Itga1

CD11b/ Mouse, Human/ Rat IgG2b, κ/ M1/70/ 1/500/ TGAAGGCTCATTTGT/ AB_2734152/ 101265/ A0014/ Itgam
CD11c/ Mouse/ Armenian Hamster IgG/ N418/ 1/500/ GTTATGGACGCTTGC/ AB_2750352/ 117355/ A0106 Itgax
CD122/ Mouse/ Rat IgG2a, κ/ 5H4/ 1/500/ GGTATGCGACACTTA/ N/A/ 105909/ A0227/ Il2rb
CD124/ Mouse/ Rat IgG2b, κ/ I015F8/ 1/500/ GAACCGTAGTATAAC/ AB_2814050/ 144809/ A0916/ Il4ra
CD127/ Mouse/ Rat IgG2a, κ/ A7R34/ 1/500/ GTGTGAGGCACTCTT/ AB_2750009/ 135045/ A0198/ Il7r
CD49b/ Mouse/ Armenian Hamster IgG/ HMα2/ 1/500/ CGCGTTAGTAGAGTC/ AB_2819796/ 103523/ A0421/ Itga2
CD49d/ Mouse/ Rat IgG2b, κ/ R1-2/ 1/500/ CGCTTGGACGCTTAA/ AB_2734159/ 103623/ A0078/ Itga4
CD49f/ Human, African Green, Mouse, Baboon, Capuchin Monkey, Cat (Feline), Cattle (Bovine, Cow), Chimpanzee, Cynomolgus, Dog (Canine), Horse (Equine), Rabbit (Lapine), Rhesus, Sheep (Ovine), Swine (Pig, Porcine)/ Rat IgG2a, κ GoH3/ 1/500/ TTCCGAGGATGATCT/ AB_2734291/ 313633/ A0070/ Itga6
CD5/ Mouse/ Rat IgG2a, κ/ 53-7.3/ 1/500/ CAGCTCAGTGTGTTG/ AB_2749985/ 100637/ A0111/ Cd5
CD54/ Mouse/ Rat IgG2b, κ/ YN1/1.7.4/ 1/500/ ATAACCGACACAGTG/ AB_2734177/ 116127/ A0074/ Icam1
CD55/ Mouse/ Armenian Hamster IgG/ RIKO-3/ 1/500/ ATTGTTGTCAGACCA/ AB_2783086/ 131809/ A0558/ Cd55
CD62E/ Mouse, Rat/ Mouse IgG1, κ/ RME-1/CD62E/ 1/500/ CTCCCTTTGTAACAT/ N/A/ N/A/ A0379/ Sele
CD62L/ Mouse/ Rat IgG2a, κ/ MEL-14/ 1/500/ TGGGCCTAAGTCATC/ AB_2750364/ 104451/ A0112/ Sell
CD62P/ Mouse, Rat /Mouse IgG2a, κ/ RMP-1/ 1/500/ TGTGTGCCGTAGACT/ N/A/ N/A/ A0229/ Selp
CD63/ Mouse/ Rat IgG2a, κ/ NVG-2/ 1/500/ ATCCGACACGTATTA/ AB_2783109/ 143915/ A0559/ Cd63
CD64/ Mouse/ Rat IgG1, κ/ X54-5/7.1/ 1/500/ AGCAATTAACGGGAG/ AB_2750367/ 139325/ A0202/ Fcgr1
CD68/ Mouse/ Rat IgG2a/ FA-11/ 1/500/ CTTTCTTTCACGGGA/ AB_2783099/ 137031/ A0560/ Cd68
CD69/ Mouse/ Armenian Hamster IgG/ H1.2F3/ 1/500/ TTGTATTCCGCCATT/ AB_2750539/ 104546/ A0197/ Cd69
CD71/ Mouse/ Rat IgG2a, κ/ RI7217/ 1/500/ ACCGACCAGTAGACA/ AB_2800574/ 113824/ A0441/ Tfrc
CD73/ Mouse/ Rat IgG1, κ/ TY/11.8/ 1/500/ ACACTTAACGTCTGG/ AB_2749980/ 127227/ A0077/ Nt5e
CD79b/ Mouse/ Armenian Hamster IgG/ HM79-12/ 1/500/ TAACTCAGTGCGAGT/ AB_2783087/ 132811/ A0561/ Cd79b
CD80/ Mouse, Dog (Canine)/ Armenian Hamster IgG/ 16-10A1/ 1/500/ GACCCGGTGTCATTT/ AB_2813935/ 104745/ A0849/ Cd80
CD83/ Mouse/ Rat IgG1, κ/ Michel-19/ 1/500/ TCTCAGGCTTCCTAG/ AB_2783061/ 121519/ A0562/ Cd83
CD86/ Mouse/ Rat IgG2a, κ/ GL-1/ 1/500/ CTGGATTTGTGTATC/ AB_2750348/ 105047/ A0200/ Cd86
CD8a/ Mouse /Rat IgG2a, κ/ 53-6.7/ 1/500/ TACCCGTAATAGCGT/ AB_2734151/ 100773/ A0002/ Cd8a
CD8b/ Mouse/ Rat IgG2b, κ/ YTS156.7.7/ 1/500/ TTCCCTCTATGGAGC/ AB_2800615/ 126623/ A0230/ Cd8b1
CD9/ Mouse/ Rat IgG2a, κ/ MZ3/ 1/500/ TAGCAGTCACTCCTA/ AB_2800600/ 124819/ A0813/ Cd9
CD90-2/ Mouse/ Rat IgG2b, κ/ 30-H12/ 1/500/ CCGATCAGCCGTTTA/ AB_2734166/ 105345/ A0075/ Thy1
CD93/ Mouse/ Rat IgG2b, κ/ AA4.1/ 1/500/ GGTATTTCCTGTGGT/ AB_2750375/ 136513/ A0113/ Cd93
CD95/ Mouse/ Mouse IgG1, κ/ SA367H8/ 1/500/ CACATCGTTTGTGTA/ AB_2810418/ 152614/ A0917/ Fas
CLEC4F/ Mouse/ -/ -/ 1/500/ ACGTATATCACGTTG/ N/A/ N/A/ A0411/ Clec4f
CX3CR1/ Mouse/ Mouse IgG2a, κ/ SA011F1/ 1/500/ CACTCTCAGTCCTAT/ AB_2783121/ 149041/ A0563/ Cx3cr1
CXCR4 Mouse Rat IgG2b, κ L276F12 1/500 GTCGTGGTGTTGTTC AB_2800682 146520 A0444 Cxcr4
DLL1/ Mouse/ Armenian Hamster IgG/ HMD1-3/ 1/500/ AGACCTCCTTACGAT/ AB_2810390/ 128315/ A0884/ Dll1
DopamineReceptorD4/ Mouse, Human/ -/ -/ 1/500/ TCTCTGCACCGCTTT/ N/A/ N/A/ A0434/ Drd4
DR3/ Mouse/ Armenian Hamster IgG/ 4C12/ 1/500/ GCTTGGGCAATTAAG/ AB_2814048/ 144413/ A0836/ Tnfrsf25
ENPP1/ Mouse/ Rat IgG2b, κ/ YE1/19.1/ 1/500/ CATTAACCGCCCTTA/ AB_2814052/ 149209/ A0891/ Enpp1
ERK1/ Mouse, Human/ Rat IgG2a, κ/ W15133A/ 1/500/ CGCCACTTCATTCAT/ N/A/ N/A/ A0222/ Mapk3
ESAM/ Mouse/ Rat IgG2a, κ/ 1G8/ESAM/ 1/500/ TATAGTTTCCGCCGT/ AB_2800642/ 136209/ A0596/ Esam
F4-80/ Mouse/ Rat IgG2a, κ/ BM8/ 1/500/ TTAACTTCAGCCCGT/ AB_2749986/ 123153/ A0114/ Adgre1
FceRIa/ Mouse/ Armenian Hamster IgG/ MAR-1/ 1/500/ AGTCACCTCGAAGCT/ AB_2749987/ 134333/ A0115/ Fcer1a
Folate receptor beta Mouse Rat IgG2a, κ 10/FR2 1/500 CTCAGATGCCCTTTA AB_2800690 153307 A0564 Folr2
GABRB3/ Mouse, Human/ -/ -/1/500/ ATAAGAGCCCACCAT/ N/A/ N/A/ A0435/ Gabrb3
IA-IE/ Mouse/ Rat IgG2b, κ/ M5/114.15.2/ 1/500/ GGTCACCAGTATGAT/ AB_2750505/ 107653/ A0117/ H2-Ab1
IgD/ Mouse/ Rat IgG2a, κ/ 11-26c.2a/ 1/500/ TCATATCCGTTGTCC/ AB_2783321/ 405745/ A0571/ Ighd
IgG1-Mouse-k/ Isotype control/ Mouse IgG1, κ/ MOPC-21/ 1/500/ GCCGGACGACATTAA/ N/A/ 400199/ A0090
IgG1-Rat-k/ Isotype control/ Rat IgG1, κ/ RTK2071/ 1/500/ ATCAGATGCCCTCAT/ N/A/ 400459/ A0236
IgG1-Rat-l/ Isotype control/ Rat IgG1, λ/ G0114F7/ 1/500/ GGGAGCGATTCAACT/ N/A/ 401919/ A0237
IgG2a-Mouse-k/ Isotype control/ Mouse IgG2a, κ/ MOPC-173/ 1/500/ CTCCTACCTAAACTG/ N/A/ 400285/ A0091
IgG2a-Rat-k/ Isotype control/ Rat IgG2a, κ/ RTK2758/ 1/500/ AAGTCAGGTTCGTTT/ N/A/ 400571/ A0238
IgG2b-Mouse-k/ Isotype control/ Mouse IgG2b, κ/ MPC-11/ 1/500/ ATATGTATCACGCGA/ N/A/ 400373/ A0092
IgG2b-Rat-k/ Isotype control/ Rat IgG2b, κ/ RTK4530/ 1/500/ GATTCTTGACGACCT/ N/A/ 400673/ A0095
IgG2c-Rat-k/ Isotype control/ Rat IgG2c, κ/ RTK4174/ 1/500/ TCCAGGCTAGTCATT/ N/A/ 400739/ A0240
IgG-Hamster/ Isotype control/ Armenian Hamster IgG/ HTK888/ 1/500/ CCTGTCATTAAGACT/ N/A/ 400973/ A0241
IgM/ Mouse/ Rat IgG2a, κ/ RMM-1/ 1/500/ AGCTACGCATTCAAT/ AB_2783322/ 406535/ A0450/ Ighm
IL33Ra/ Mouse/ Rat IgG2a, κ/ DIH9/ 1/500/ GCGATGGAGCATGTT/ AB_2800680/ 145317/ A0837/ Il1rl1
Integrin-b7/ Human, African Green, Baboon, Chimpanzee, Cynomolgus, Mouse, Rhesus/ Rat IgG2a, κ/ FIB504/ 1/500 TCCTTGGATGTACCG/ AB_2750504/ 321227/ A0214/ Itgb7
IRF4/ Mouse, Human/ -/ -/ 1/500/ GGATTTGTATCTCCC/ N/A/ N/A/ A0249/ Irf4
JAML/ Mouse/ Armenian Hamster IgG/ 4E10/ 1/500/ GTTATGGTTCGTGTT/ AB_2810391/ 128507/ A0877/ Jaml
KCC2/ Mouse, Rat/ -/ -/ 1/500/ GAGCTTGTACCGCTT/ N/A/ N/A/ A0438/ Slc12a5
KLRG1/ Mouse, Human/ Syrian Hamster IgG/ 2F1/KLRG1/ 1/500/ GTAGTAGGCTAGACC/ AB_2800648/ 138431/ A0250/ Klrg1
Ly49D/ Mouse/ Rat IgG2a, κ/ 4E5/ 1/500/ TATATCCCTCAACGC/ AB_2800647/ 138309/ A0841/ Klra4
Ly49H/ Mouse/ Rat IgG1, κ/ 3D10/ 1/500/ CCAGTAGGCTTATTA/ AB_2814049/ 144715/ A0839/ Klra8
Ly6A-Ly6E/ Mouse/ Rat IgG2a, κ/ D7/ 1/500/ TTCCTTTCCTACGCA/ AB_2750535/ 108147/ A0130/ Ly6a
Ly6C/ Mouse/ Rat IgG2c, κ/ HK1.4/ 1/500/ AAGTCGTGAGGCATG/ AB_2749961/ 128047/ A0013/ Ly6c2
Ly6D/ Mouse/ Rat IgG2c, κ/ 49-4H/ 1/500/ ATGTCCTACCTCAAA/ N/A/ N/A/ A5106/ Ly6d
Ly6G/ Mouse/ Rat IgG2a, κ/ 1A8/ 1/500/ ACATTGACGCAACTA/ AB_2749962/ 127655/ A0015/ Ly6g
Mac2/ Mouse, Human/ Rat IgG2a, κ/ M3/38/ 1/500/ GATGCAATTAGCCGG/ AB_2810384/ 125421/ A0895/ Lgals3
MAdCAM1/ Mouse/ Rat IgG2a, κ/ MECA-367/ 1/500/ TTGGGCGATTAAGAA/ AB_2783058/ 120713/ A0232/ Madcam1
MERTK/ Mouse/ Rat IgG2a, κ/ 2B10C42/ 1/500/ AGTAGAGCAACTCGT/ N/A/ 151511/ A0565/ Mertk
NK1-1/ Mouse Mouse IgG2a, κ/ PK136/ 1/500/ GTAACATTACTCGTC/ AB_2750536/ 108755/ A0118 Klrb1c
Notch1/ Mouse/ Armenian Hamster IgG/ HMN1-12/ 1/500/ TCCGGTCACTCAGTA/ AB_2783085/ 130617/ A0442/ Notch1
P2RY12/ Mouse/ Rat IgG2b, κ/ S16007D/ 1/500/ TTGCTTATTTCCGCA/ AB_2783419/ 848009/ A0415/ P2ry12

P2X7R/ Mouse/ Rat IgG2b, κ/ 1F11/ 1/500/ TGCTTCATTCATGTG/ AB_2800683/ 148711/ A0824/ P2rx7
Panendothelial/ Mouse/ Rat IgG2a, κ/ MECA-32/ 1/500/ CGTCCTAGTCATTGG/ AB_2783057/ 120507/ A0381/ Plvap
PIRA-PIRB/ Mouse/ Rat IgG1, κ/ 6C1/ 1/500/ TGTAGAGTCAGACCT/ AB_2810412/ 144105/ A0882/ Pirb/Pira1
RORg/ Mouse, Human/ Mouse IgG2a, κ/ 2F7-2/ 1/500/ TTCCCTACGCCGAAT/ N/A/ N/A/ A0223/ Rorc
SiglecH/ Mouse/ Rat IgG1, κ/ 551/ 1/500/ CCGCACCTACATTAG/ AB_2750537/ 129615/ A0119/ Siglech
TCR Vb8.1, 8.2/ Mouse/ Rat IgG2a, κ/ KJ16-133.18/ 1/500/ ACTATCCGTTGTGCT/ AB_2783056/ 118415/ A0235/ Tcrb
TCRb/ Mouse/ Armenian Hamster IgG/ H57-597/ 1/500/ TCCTATGGGACTCAG/ AB_2750538/ 109247/ A0120 /Tcrb
TCRb-V5/ Mouse/ Mouse IgG1, κ/ MR9-4/ 1/500/ CTCAACAGTATTCTG/ AB_2810408/ 139517/ A0354/ Tcrb
TCRgd/ Mouse/ Armenian Hamster IgG/ GL3/ 1/500/ AACCCAAATAGCTGA/ AB_2749988/ 118137/ A0121/ Tcrd/Tcrg
TCRg-V1.1/ Mouse/ Armenian hamster IgG/ 2.11/ 1/500/ TCGTTTAACCAGCCT/ AB_2800654/ 141113/ A0209/ Tcrg
TCRg-V2/ Mouse Armenian Hamster IgG/ UC3-10A6/ 1/500/ AAGCTGCACCGTAAT/ AB_2783100/ 137709/ A0211/ Tcrg
TCRg-V3/ Mouse/ Syrian Hamster IgG/ 536/ 1/500/ TCGTGGTCCCTTTCT/ AB_2810404/ 137507/ A0210/ Tcrg
TER119/ Mouse/ Rat IgG2b, κ/ TER-119/ 1/500/ GCGCGTTTGTGCTAT/ AB_2749989/ 116247/ A0122/ Ly76
TIGIT/ Mouse Mouse IgG1, κ/ 1G9/ 1/500/ GAAAGTCGCCAACAG/ AB_2800656/ 142115/ A0848/ Tigit
Tim4/ Mouse/ Rat IgG2a, κ/ RMT4-54/ 1/500/ TGCTGGAGGGTATTC/ AB_2783084/ 130011/ A0567/ Timd4
TLR4/ Mouse Rat IgG2a, κ/ MTS510/ 1/500/ GCAGTTGTCCGATTC/ AB_2810352/ 117614/ A0875/ Tlr4
VSIG4/ Mouse/ -/-/ 1/500/ TATGCTGTGGCTATG/ N/A/ N/A/ A0414/ Vsig4
XCR1/ Mouse, Rat/ Mouse IgG2b, κ/ ZET/ 1/500/ TCCATTACCCACGTT/ AB_2783120/ 148227/ A0568/ Xcr1

Validation

Flow cytometry:
CD206-FITC: https://www.biolegend.com/fr-fr/products/fitc-anti-mouse-cd206-mmr-antibody-7318. doi:10.1016/j.bbrc.2011.11.088
CD371(Clec12a)-APC: https://www.biolegend.com/fr-fr/products/apc-anti-mouse-cd371-clec12a-antibody-10322.
CD8a-APC/cy7: https://www.biolegend.com/fr-fr/products/apc-cy7-anti-mouse-cd8a-antibody-2269. doi: 10.1093/intimm/dxh340
CD44-BV570: https://www.biolegend.com/fr-fr/products/brilliant-violet-570-anti-mouse-human-cd44-antibody-7386. doi: 10.1186/1479-5876-7-89
CD64-BV605: https://www.biolegend.com/fr-fr/products/brilliant-violet-605-anti-mouse-cd64-fcgammari-antibody-13611. doi: 10.1182/blood-2009-07-235028
Xcr1-BV650: https://www.biolegend.com/fr-fr/products/brilliant-violet-650-anti-mouse-rat-xcr1-antibody-12421. doi: 10.3389/fimmu.2015.00035
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cell-surface-antigens/buv496-rat-anti-mouse-cd45rb220-ra3-6b2/p/564662. doi: https://doi.org/10.4049/jimmunol.167.3.1393
Ly-6G-BUV563: http://www.bdbiosciences.com/eu/reagents/research/antibodies-buffers/immunology-reagents/antimouseantibodies/
cell-surface-antigens/buv563-rat-anti-mouse-ly-6g-1a8/p/565707. PMID: 8051400.
CD45-BUV661: https://www.bdbiosciences.com/us/applications/research/stem-cell-research/cancer-research/mouse/buv661-rat-anti-mouse-cd45-30-f11/p/565079. doi: 10.1172/JCI7811
CD43-BUV737: https://www.bdbiosciences.com/us/reagents/research/antibodies-buffers/immunology-reagents/antimouseantibodies/
cell-surface-antigens/buv737-rat-anti-mouse-cd43-s7/p/564398. PMID: 9645617
CD4-BUV805: https://www.bdbiosciences.com/us/reagents/research/antibodies-buffers/immunology-reagents/antimouseantibodies/
cell-surface-antigens/buv805-rat-anti-mouse-cd4-gk15/p/564922. PMID: 10562325.
F4/80-PE-CF594: https://www.bdbiosciences.com/us/reagents/research/antibodies-buffers/immunology-reagents/antimouseantibodies/
cell-surface-antigens/pe-cf594-rat-anti-mouse-f480-t45-2342/p/565613. doi: 10.1007/s11011-015-9714-9.
CD11c-PE/cy5: https://www.biolegend.com/en-us/products/pe-cy5-anti-mouse-cd11c-antibody-3085. PMID: 16818746.
CX3CR1-BV421: https://www.biolegend.com/en-us/products/brilliant-violet-421-anti-mouse-cx3cr1-antibody-11852. doi: 10.1016/j.cell.2017.01.006.
CD11b-PE/cy7: https://www.biolegend.com/en-us/products/pe-cy7-anti-mouse-human-cd11b-antibody-1921. PMID: 16493044.
I-A/I-E-PerCP/cy5.5: https://www.biolegend.com/en-us/products/percp-cy5-5-anti-mouse-i-a-i-e-antibody-4282. doi: https://doi.org/10.3389/fimmu.2017.00623.
CD11a-Pe: https://www.thermofisher.com/antibody/product/CD11a-LFA-1alpha-Antibody-clone-M17-4-Monoclonal/12-0111-82. doi: 10.1038/cr.2015.61.
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CD371(Clec12a)-PE: https://www.biolegend.com/en-us/products/pe-anti-mouse-cd371-clec12a-antibody-7686.
NRP1-BV421: https://www.biolegend.com/de-de/search-results/brilliant-violet-421-anti-mouse-cd304-neuropilin-1-antibody-8731. doi: 10.1371/journal.pone.0108023.
F4/80-BV650: https://www.biolegend.com/de-de/products/brilliant-violet-650-anti-mouse-f4-80-antibody-10630. doi: 10.4049/jimmunol.1202884.
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Ly6C-APC/Fire™ 750: https://www.biolegend.com/de-de/products/apc-fire-750-anti-mouse-ly-6c-antibody-13338. doi: 10.1101/gad.1771409.
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CD63-PE/Dazzle™ 594: https://www.biolegend.com/de-de/products/pe-dazzle-594-anti-mouse-cd63-antibody-11709.
P2RX7-PE/cy7: https://www.biolegend.com/de-de/products/pecy7-anti-mouse-p2x7r-antibody-15047. doi: https://doi.org/10.1038/ncomms2023.
CD11b-BUV737: http://www.bdbiosciences.com/us/applications/research/b-cell-research/surface-markers/mouse/buv737-ratanti-
CD11b-m170/p/564443. doi: https://doi.org/10.4049/jimmunol.167.3.1393.

CITE-Seq:
CD102: https://www.biolegend.com/en-us/products/totalseq-a0104-anti-mouse-cd102-antibody-15918. PMID: 8648141.
CD103: https://www.biolegend.com/en-us/products/totalseq-a0201-anti-mouse-cd103-antibody-16456. doi: 10.1016/j.jim.2014.07.012.
CD105: https://www.biolegend.com/en-us/products/totalseq-a0812-anti-mouse-cd105-antibody-17145. PMID: 3262644.
CD106: https://www.biolegend.com/en-us/products/totalseq-a0226-anti-mouse-cd106-antibody-16432. doi: 10.1242/jcs.119966.
CD107a: https://www.biolegend.com/en-us/products/totalseq-a0905-anti-mouse-cd107a-lamp-1-antibody-17844. N/A .
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CD117: https://www.biolegend.com/en-us/products/totalseq-a0012-anti-mouse-cd117-c-kit-16211. doi: 10.1038/nm.2159.
CD11a: https://www.biolegend.com/en-us/products/totalseq-a0595-anti-mouse-cd11a-antibody-16750. doi: 10.4049/jimmunol.175.8.4847.
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CD11c: https://www.biolegend.com/en-us/products/totalseq-a0106-anti-mouse-cd11c-antibody-16486. doi: 10.4049/jimmunol.1401894.
CD122: N/A. doi: doi.org/10.1016/j.immuni.2020.08.004.
CD124: https://www.biolegend.com/en-us/products/totalseq-a0916-anti-mouse-cd124-antibody-18366. N/A.
CD127: https://www.biolegend.com/en-us/products/totalseq-a0198-anti-mouse-cd127-il-7ralpha-antibody-16191. doi: 10.4049/jimmunol.1001238.
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CD135: https://www.biolegend.com/en-us/products/totalseq-a0098-anti-mouse-cd135-antibody-16192. doi: 10.1152/ajpcell.00400.2012.
CD137: https://www.biolegend.com/en-us/products/totalseq-a0194-anti-mouse-cd137-antibody-16459. doi: 10.1111/j.1432-2277.2011.01220.x.
CD137L (4-1BB): https://www.biolegend.com/en-us/products/totalseq-a0890-anti-mouse-4-1bb-ligand-cd137l-18226. doi: 10.1016/j.imlet.2011.10.008.
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CD14: https://www.biolegend.com/en-us/products/totalseq-a0424-anti-mouse-cd14-antibody-17203. doi: 10.1084/jem.2003107.
CD140a: https://www.biolegend.com/en-us/products/totalseq-a0573-anti-mouse-cd140a-antibody-16888.
doi: 10.1177/1759091415578026.
CD15: https://www.biolegend.com/en-us/products/totalseq-a0076-anti-mousehuman-cd15-ssea-1-antibody-17267. doi: 10.1073/pnas.75.11.5565.
CD150: https://www.biolegend.com/en-us/products/totalseq-a0203-anti-mouse-cd150-slam-antibody-16421. doi: 10.1182/blood-2006-03-006569.
CD152: https://www.biolegend.com/en-us/products/totalseq-a0388-anti-mouse-cd152-antibody-17281. doi: 10.1167/iovs.09-5098.
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CD172a: https://www.biolegend.com/en-us/products/totalseq-a0422-anti-mouse-cd172a-sirpalpha-antibody-17125. doi: 10.1084/jem.191.3.515.
CD183: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD185: https://www.biolegend.com/en-us/products/totalseq-a0846-anti-mouse-cd185-cxcr5-antibody17448. N/A.
CD19: https://www.biolegend.com/en-us/products/totalseq-a0093-anti-mouse-cd19-antibody-16199. doi: 10.4049/jimmunol.1102063.
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CD197: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD1d: https://www.biolegend.com/en-us/products/totalseq-a0851-anti-mouse-cd1d-cd11-ly-38-antibody-17517. doi: 10.1371/journal.pone.0047487.
CD2: https://www.biolegend.com/en-us/products/totalseq-a0892-anti-mouse-cd2-antibody-17925. doi: 10.1016/s1074-7613(00)80327-1.
CD20: https://www.biolegend.com/en-us/products/totalseq-a0192-anti-mouse-cd20-antibody-15910. doi: 10.1016/

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CD200: https://www.biolegend.com/en-us/products/totalseq-a0079-anti-mouse-cd200-ox2-antibody-15914. doi: 10.1016/j.immuni.2020.08.004.
CD200R: https://www.biolegend.com/en-us/products/totalseq-a0807-anti-mouse-cd200r-ox2r-antibody-17190. doi: 10.4049/jimmunol.1000527.
CD200R3: https://www.biolegend.com/en-us/products/totalseq-a0809-anti-mouse-cd200r3-antibody-17144. N/A.
CD201: https://www.biolegend.com/en-us/products/totalseq-a0439-anti-mouse-cd201-epcr-antibody-17191. doi: 10.1160/TH09-11-0750.
CD204: https://www.biolegend.com/en-us/products/totalseq-a0448-anti-mouse-cd204-antibody-16624. doi: 10.1016/j.immuni.2020.08.004.
CD206: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD207: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD21-CD35: https://www.biolegend.com/en-us/products/totalseq-a0107-anti-mouse-cd21-cd35-cr2-cr1-antibody-16420. doi: 10.1074/jbc.M114.604132.
CD22: https://www.biolegend.com/en-us/products/totalseq-a0827-anti-mouse-cd22-antibody-17151. N/A.
CD223: https://www.biolegend.com/en-us/products/totalseq-a0378-anti-mouse-cd223-lag-3-antibody-16794. doi: 10.4049/jimmunol.174.2.688.
CD226: https://www.biolegend.com/en-us/products/totalseq-a0852-anti-mouse-cd226-dnam-1-antibody-17838. doi: 10.4049/jimmunol.1000569.
CD23: https://www.biolegend.com/en-us/products/totalseq-a0108-anti-mouse-cd23-antibody-16364. doi: 10.1158/0008-5472.CAN-10-3907.
CD24: https://www.biolegend.com/en-us/products/totalseq-a0212-anti-mouse-cd24-antibody-16457. doi: 10.4049/jimmunol.0900062.
CD25: https://www.biolegend.com/en-us/products/totalseq-a0097-anti-mouse-cd25-antibody-16233. doi: 10.1007/s00204-011-0673-6.
CD26: https://www.biolegend.com/en-us/products/totalseq-a0883-anti-mouse-cd26-dpp-4-antibody-17926. doi: 10.1099/vir.0.060640-0.
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CD272: https://www.biolegend.com/en-us/products/totalseq-a0881-anti-mouse-cd272-btla-18099. doi:10.1084/jem.20102017.
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CD28: N/A. doi: 10.1016/j.immuni.2020.08.004.
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CD309: https://www.biolegend.com/en-us/products/totalseq-a0554-anti-mouse-cd309-vegfr2-flk-1-antibody-16625. PMID: 9169850.
CD31: https://www.biolegend.com/en-us/products/totalseq-a0904-anti-mouse-cd31-antibody-17825. doi: 10.1371/journal.pone.0080110.
CD314: https://www.biolegend.com/en-us/products/totalseq-a0835-anti-mouse-cd314-antibody-18367. doi: 10.1158/1078-0432.CCR-10-0279.
CD317: https://www.biolegend.com/en-us/products/totalseq-a0811-anti-mouse-cd317-bst2-pdca-1-antibody-17150. doi: 10.1084/jem.20130536.
CD326: https://www.biolegend.com/en-us/products/totalseq-a0449-anti-mouse-cd326-ep-cam-antibody-17201. doi: 10.1158/0008-5472.CAN-13-3007.
CD335: https://www.biolegend.com/en-us/products/totalseq-a0184-anti-mouse-cd335-nkp46-antibody-15911. doi: 10.4049/jimmunol.1003267.
CD34: https://www.biolegend.com/en-us/products/totalseq-a0857-anti-mouse-cd34-antibody-17855. N/A.
CD357: https://www.biolegend.com/en-us/products/totalseq-a0193-anti-mouse-cd357-gitr-antibody-15913. doi: 10.4049/jimmunol.179.9.5999.
CD36: https://www.biolegend.com/en-us/products/totalseq-a0555-anti-mouse-cd36-antibody-17187. doi: 10.1038/s41551-018-0310-2.
CD366: https://www.biolegend.com/en-us/products/totalseq-a0003-anti-mouse-cd366-tim-3-antibody-15915. doi: 10.1182/blood-2006-11-058800.
CD370: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD371: https://www.biolegend.com/en-us/products/totalseq-a0825-anti-mouse-cd371-clec12a-antibody-17269. N/A.
CD38: https://www.biolegend.com/en-us/products/totalseq-a0557-anti-mouse-cd38-antibody-16495. PMID:9013949.
CD39: https://www.biolegend.com/en-us/products/totalseq-a0834-anti-mouse-cd39-antibody-17537. N/A.
CD3e: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD4: https://www.biolegend.com/en-gb/products/totalseq-a0001-anti-mouse-cd4-antibody-16176. doi: 10.4049/jimmunol.0902080.
CD41: https://www.biolegend.com/en-gb/products/totalseq-a0443-anti-mouse-cd41-antibody-17268. doi: 10.1093/toxsci/kfq042.

CD43: https://www.biolegend.com/en-gb/products/totalseq-a0110-anti-mouse-cd43-antibody-16417. doi:10.4049/jimmunol.174.7.4051.
CD45R-B220: https://www.biolegend.com/en-gb/products/totalseq-a0103-anti-mouse-human-cd45r-b220antibody-15925 . doi: 10.1111/j.1432-2277.2011.01220.x.
CD48: https://www.biolegend.com/en-gb/products/totalseq-a0429-anti-mouse-cd48-antibody-17254. doi: 10.1084/jem.179.1.341.
CD49a: https://www.biolegend.com/en-gb/products/totalseq-a0850-anti-mouse-cd49a-antibody-17538. doi: 10.1093/intimm/7.8.1183.
CD49b: https://www.biolegend.com/en-gb/products/totalseq-a0421-anti-mouse-cd49b-antibody-18452. doi: 10.1182/blood-2007-06-094680.
CD49d: https://www.biolegend.com/en-gb/products/totalseq-a0078-anti-mouse-cd49d-antibody-15921. doi: 10.4049/jimmunol.178.8.5366.
CD49f: https://www.biolegend.com/en-gb/products/totalseq-a0070-anti-human-mouse-cd49f-antibody-15953. doi: 10.1158/0008-5472.CAN-10-1936.
CD5: https://www.biolegend.com/en-gb/products/totalseq-a0111-anti-mouse-cd5-antibody-16152. doi: 10.1182/blood-2006-08-044370.
CD54: https://www.biolegend.com/en-gb/products/totalseq-a0074-anti-mouse-cd54-antibody-15916. doi: 10.1128/IAI.00428-13.
CD55: https://www.biolegend.com/en-gb/products/totalseq-a0558-anti-mouse-cd55-daf-antibody-16617. doi: 10.1152/ajpcell.00213.2011.
CD62E: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD62L: https://www.biolegend.com/en-gb/products/totalseq-a0112-anti-mouse-cd62l-antibody-16419. doi: 10.1182/blood-2008-04-153866.
CD62P: N/A. doi: 10.1016/j.immuni.2020.08.004.
CD63: https://www.biolegend.com/en-gb/products/totalseq-a0559-anti-mouse-cd63-antibody-16628. doi: 10.4049/jimmunol.1101008.
CD64: https://www.biolegend.com/en-gb/products/totalseq-a0202-anti-mouse-cd64-fcγri-antibody-16362. doi: 10.1371/journal.pntd.0002825.
CD68: https://www.biolegend.com/en-gb/products/totalseq-a0560-anti-mouse-cd68-antibody-16896. doi: 10.1161/JAHA.115.001856.
CD69: https://www.biolegend.com/en-gb/products/totalseq-a0197-anti-mouse-cd69-antibody-16422. doi: 10.1016/j.bbamcr.2013.03.006.
CD71: https://www.biolegend.com/en-gb/products/totalseq-a0441-anti-mouse-cd71-antibody-17200. doi: 10.1021/mp200621v.
CD73: https://www.biolegend.com/en-gb/products/totalseq-a0077-anti-mouse-cd73-antibody-16201. doi: 10.1186/1465-9921-11-127.
CD79b: https://www.biolegend.com/en-gb/products/totalseq-a0561-anti-mouse-cd79b-igbeta-antibody-16621. doi: 10.1016/S1074-7613(00)80377-5.
CD80: https://www.biolegend.com/en-gb/products/totalseq-a0849-anti-mouse-cd80-antibody-18160. doi: 10.1074/mcp.M112.025205.
CD83: https://www.biolegend.com/en-gb/products/totalseq-a0562-anti-mouse-cd83-antibody-16798. doi: 10.1111/j.1432-2277.2011.01220.x.
CD86: https://www.biolegend.com/en-gb/products/totalseq-a0200-anti-mouse-cd86-antibody-16399. doi: 10.4049/jimmunol.1400871.
CD8a: https://www.biolegend.com/en-gb/products/totalseq-a0002-anti-mouse-cd8a-antibody-15920. doi: 10.1128/IAI.00868-06.
CD8b: https://www.biolegend.com/en-gb/products/totalseq-a0230-anti-mouse-cd8b-ly-3-antibody-17124. doi: 10.1002/eji.200636900.
CD9: https://www.biolegend.com/en-gb/products/totalseq-a0813-anti-mouse-cd9-antibody-17136. doi: 10.4049/jimmunol.168.11.5605.
CD90-2: https://www.biolegend.com/en-gb/products/totalseq-a0075-anti-mouse-cd90-2-antibody-15919. doi: 10.1073/pnas.1218767110.
CD93: https://www.biolegend.com/en-us/products/totalseq-a0113-anti-mouse-cd93-aa4-1-early-b-lineage-antibody-16416. doi: 10.1074/jbc.M114.553230.
CD95: https://www.biolegend.com/en-us/products/totalseq-a0917-anti-mouse-cd95-fas-antibody-17929. N/A
CLEC4F: N/A. N/A?
CX3CR1: https://www.biolegend.com/en-us/products/totalseq-a0563-anti-mouse-cx3cr1-antibody-16630. doi: 10.1016/j.immuni.2020.08.004.
CXCR4: https://www.biolegend.com/en-us/products/totalseq-a0444-anti-mouse-cd184-cxcr4-antibody-17270. doi: 10.1371/journal.pone.0194688.
DLL1: https://www.biolegend.com/en-us/products/totalseq-a0884-anti-mouse-dll1-antibody-17847. N/A
DopamineReceptorD4: N/A. N/A.
DR3: https://www.biolegend.com/en-us/products/totalseq-a0836-anti-mouse-dr3-tnfrsf25-antibody-18100. doi: 10.1084/jem.20140678.
ENPP1: https://www.biolegend.com/en-us/products/totalseq-a0891-anti-mouse-enpp1-antibody-18322. doi: 10.1073/pnas.1212428109.
ERK1: N/A. N/A.
ESAM: https://www.biolegend.com/en-us/products/totalseq-a0596-anti-mouse-esam-antibody-16650. doi: 10.1074/jbc.M111999200.
F4-80: https://www.biolegend.com/en-us/products/totalseq-a0114-anti-mouse-f480-antibody-16193. doi: 10.1371/journal.pone.0119360.
FceRIa: https://www.biolegend.com/en-us/products/totalseq-a0115-anti-mouse-fcepsilonrialpha-antibody-16183. doi: 10.1074/jbc.M808197200.
Folate receptor beta: https://www.biolegend.com/en-us/products/totalseq-a0564-anti-mouse-folate-receptor-beta-fr-betaantibody-17205. doi: 10.1007/s00262-009-0667-x.
GABRB3: N/A. N/A.
IA-IE: https://www.biolegend.com/en-us/products/totalseq-a0117-anti-mouse-i-a-i-e-antibody-16348. doi: 10.1128/IAI.00514-08.
IgD: https://www.biolegend.com/en-us/products/totalseq-a0571-anti-mouse-igd-antibody-16619. doi: 10.1084/jem.20131385.
IgG1-Mouse-k: https://www.biolegend.com/en-us/products/totalseq-a0090-mouse-igg1-kappa-isotype-control-15774. doi: 10.1074/jbc.M114.626747.

IgG1-Rat-k: https://www.biolegend.com/en-us/products/totalseq-a0236-rat-igg1-kappa-isotype-ctrl-antibody-16187. doi: 10.2353/ajpath.2010.100028.
IgG1-Rat-l: https://www.biolegend.com/en-us/products/totalseq-a0237-rat-igg1-lambda-isotype-ctrl-antibody-16878. doi: 10.1016/j.immuni.2020.08.004.
IgG2a-Mouse-k: https://www.biolegend.com/en-us/products/totalseq-a0091-mouse-igg2a-kappa-isotype-control-15779.doi: 10.1016/j.immuni.2020.08.004.
IgG2a-Rat-k: https://www.biolegend.com/en-us/products/totalseq-a0238-rat-igg2a-kappa-isotype-ctrl-antibody-16185. doi: 10.4049/jimmunol.180.8.5384.
IgG2b-Mouse-k: https://www.biolegend.com/en-us/products/totalseq-a0092-mouse-igg2b-kappa-isotype-control-15778. doi: 10.1182/blood-2007-07-099549.
IgG2b-Rat-k: https://www.biolegend.com/en-us/products/totalseq-a0095-rat-igg2b-kappa-isotype-ctrl-16228. doi: 10.1016/j.yjmcc.2014.11.002.
IgG2c-Rat-k: https://www.biolegend.com/en-us/products/totalseq-a0240-purified-rat-igg2c-kappa-isotype-ctrl-antibody-17326. doi: 10.1073/pnas.1203941109.
IgG-Hamster: https://www.biolegend.com/en-us/products/totalseq-a0241-armenian-hamster-igg-isotype-ctrl-17278. doi: 10.1681/ASN.2008070778.
IgM: https://www.biolegend.com/en-us/products/totalseq-a0450-anti-mouse-igm-antibody-16772. doi: 10.1128/IAI.00927-08.
IL33Ra: https://www.biolegend.com/en-us/products/totalseq-a0837-anti-mouse-il-33ra-il1rl1-st2-antibody-17544. doi: 10.1002/eji.201444969.
Integrin-b7: https://www.biolegend.com/en-us/products/totalseq-a0214-anti-human-mouse-integrin-b7-antibody16351. doi: 10.4049/jimmunol.0802870.
IRF4: N/A. N/A.
JAML: https://www.biolegend.com/en-us/products/totalseq-a0877-anti-mouse-jaml-antibody-17850. doi: 10.1091/mbc.e05-01-0036
KCC2: N/A. doi: 10.1016/j.immuni.2020.08.004.
KLRG1: https://www.biolegend.com/en-us/products/totalseq-a0250-anti-mousehuman-klrg1-mafa-antibody-16671?GroupID=GROUP571. doi: 10.4049/jimmunol.170.12.5876.
Ly49D: https://www.biolegend.com/en-us/products/totalseq-a0841-anti-mouse-ly49d-antibody-17508. doi: 10.1002/jlb.66.3.512.
Ly49H: https://www.biolegend.com/en-us/products/totalseq-a0839-anti-mouse-ly49h-antibody-18102. doi: 10.1002/eji.200940134.
Ly6A-Ly6E: https://www.biolegend.com/en-us/products/totalseq-a0130-anti-mouse-ly-6a-e-sca-1-antibody-16431. doi: 10.1084/jem.20110752.
Ly6C: https://www.biolegend.com/en-us/products/totalseq-a0013-anti-mouse-ly-6c-antibody-16177. doi: 10.4049/jimmunol.1402210.
Ly6D: N/A. N/A.
Ly6G: https://www.biolegend.com/en-us/products/totalseq-a0015-anti-mouse-ly-6g-16212. doi: 10.1158/0008-5472.CAN-10-3055.
Mac2: https://www.biolegend.com/en-us/products/totalseq-a0895-anti-mouse-human-mac-2-galectin-3-antibody-17846. doi: 10.1242/jcs.164970.
MAdCAM1: https://www.biolegend.com/en-us/products/totalseq-a0232-anti-mouse-madcam-1-antibody-16901. doi: 10.1158/0008-5472.CAN-12-1912.
MERTK: N/A. doi: 10.1016/j.immuni.2020.08.004.
NK1-1: https://www.biolegend.com/en-us/products/totalseq-a0118-anti-mouse-nk-1-1-antibody-16426. doi: 10.4049/jimmunol.180.12.7818.
Notch1: https://www.biolegend.com/en-us/products/totalseq-a0442-anti-mouse-notch-1-antibody-16881. doi: 10.1093/intimm/dxn034.
P2RY12: https://www.biolegend.com/en-us/products/totalseq-a0415-anti-p2ry12-antibody-16894. doi: 10.1016/j.immuni.2020.08.004.
P2X7R: https://www.biolegend.com/en-us/products/totalseq-trade-a0824-anti-mouse-p2x7r. doi: 10.1038/ncomms2023.
Panendothelial: https://www.biolegend.com/en-us/products/totalseq-a0381-anti-mouse-panendothelial-cell-antigenantibody-17068. doi: 10.1182/blood-2004-11-4269.
PIRA-PIRB: https://www.biolegend.com/en-us/products/totalseq-a0882-anti-mouse-pir-a-b-antibody-17927. doi: 10.1038/sj.emboj.7600878.
RORg: N/A. N/A.
SiglecH: https://www.biolegend.com/en-us/products/totalseq-a0119-anti-mouse-siglec-h-antibody-16425. doi: 10.4049/jimmunol.177.5.3260.
TCR Vb8.1, 8.2: https://www.biolegend.com/en-us/products/totalseq-a0235-anti-mouse-tcr-vbeta81-82-antibody-16751. doi: 10.1128/IAI.00177-11.
TCRb: https://www.biolegend.com/en-us/products/totalseq-a0120-anti-mouse-tcr-β-chain-antibody-16424. doi: 10.1182/blood-2007-02-074245.
TCRb-V5: https://www.biolegend.com/en-us/products/totalseq-a0354-anti-mouse-tcr-vb51-52-antibody-17545. doi: 10.1146/annurev.immunol.26.021607.090421.
TCRgd: https://www.biolegend.com/en-us/products/totalseq-a0121-anti-mouse-tcr-gamma-sigma-antibody-16151. doi: 10.4049/jimmunol.1102224.
TCRg-V1.1: https://www.biolegend.com/en-us/products/totalseq-a0209-anti-mouse-tcr-vgamma11cr4-antibody-17198. doi: 10.4049/jimmunol.173.5.3261.
TCRg-V2: https://www.biolegend.com/en-us/products/totalseq-a0211-anti-mouse-tcr-vgamma2-16875. PMID: 9200442.
TCRg-V3: https://www.biolegend.com/en-us/products/totalseq-a0210-anti-mouse-tcr-vgamma3-antibody-17067. doi: 10.4049/jimmunol.1202261.
TER119: https://www.biolegend.com/en-us/products/totalseq-a0122-anti-mouse-ter-119-erythroid-cells-antibody-16153. doi: 10.1158/2159-8290.CD-13-0419.
TIGIT: https://www.biolegend.com/en-us/products/totalseq-a0848-anti-mouse-tigit-vstm3-antibody-17446. doi: 10.4049/jimmunol.1003081.
Tim4: https://www.biolegend.com/en-us/products/totalseq-a0567-anti-mouse-tim-4-antibody-16895.doi: 10.4049/jimmunol.1300992.
TLR4: https://www.biolegend.com/en-us/products/totalseq-a0875-anti-mouse-tlr4-cd284md2-complex-antibody-17843. doi: 10.1177/1753425912450347.
VSIG4: N/A. N/A.

XCR1: https://www.biolegend.com/en-us/products/totalseq-a0568-anti-mouserat-xcr1-antibody-16776. doi: 10.3389/fimmu.2019.01195.

Eukaryotic cell lines

Policy information about cell lines

Cell line source(s)	The cell line GL261 originally derived by Ausman et al. (Cancer Res 30, 2394-2400 (1970)) was used in this study and was provided by Prof. Dr. Steven de Vleeschouwer (UZ Leuven, Belgium).
Authentication	The cell line was not authenticated.
Mycoplasma contamination	To test for mycoplasma contamination, we used the venor gem classic mycoplasma detection kit (Minerva Biolabs, catalog no 11-1025, lot no 111S1037). The cell line always tested negative for mycoplasma contamination.
Commonly misidentified lines (See ICLAC register)	No commonly misidentified lines were used in this study.

Animals and other organisms

Policy information about studies involving animals; ARRIVE guidelines recommended for reporting animal research

Laboratory animals	All information on the age, strain and sex of the animals can be found in the figure legends.
Wild animals	The study did not involve the use of wild animals.
Field-collected samples	The study did not include samples collected from the field
Ethics oversight	All mouse experiments performed in this study were approved by the Ethische Commissie Dierproeven at the Vrije Universiteit Brussel.

Note that full information on the approval of the study protocol must also be provided in the manuscript.

Flow Cytometry

Plots

Confirm that:

☒ The axis labels state the marker and fluorochrome used (e.g. CD4-FITC).

☒ The axis scales are clearly visible. Include numbers along axes only for bottom left plot of group (a 'group' is an analysis of identical markers).

☒ All plots are contour plots with outliers or pseudocolor plots.

☒ A numerical value for number of cells or percentage (with statistics) is provided.

Methodology

Sample preparation	Sample preparation is described in steps 1 to 25 of the protocol.
Instrument	BD FACSAria II/III, BD FACSymphony(TM) A5
Software	Data was collected using the BD FACSDiva(TM) software. The flow cytometry analysis was done using FlowJo V10 software and Cytobank.
Cell population abundance	For all experiments that required cell sorting, the purity of sorted populations exceeded 90%.
Gating strategy	The gating strategy for sorting is described in Figure 3 and the gating strategy for brain myeloid cell populations is described in Supplementary Figure 1.

☒ Tick this box to confirm that a figure exemplifying the gating strategy is provided in the Supplementary Information.