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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 <u>Editorial Policies</u> and the <u>Editorial Policy Checklist</u>.

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

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n/a	Confirmed					
	The exact	\times The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement				
	A stateme	A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly				
	The statis Only comm	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 descript	cion of all covariates tested				
	A descript	cion of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons				
	A full deso	cription of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) tion (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)				
	For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.					
\boxtimes	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
\boxtimes	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
\boxtimes	Estimates of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated					
Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.						
Software and code						
Policy information about <u>availability of computer code</u>						
Da	ata collection	Provide a description of all commercial, open source and custom code used to collect the data in this study, specifying the version used OR state that no software was used.				

Provide a description of all commercial, open source and custom code used to analyse the data in this study, specifying the version used OR

Data

Data analysis

Policy information about <u>availability of data</u>

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

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.

- Accession codes, unique identifiers, or web links for publicly available datasets

state that no software was used.

- A list of figures that have associated raw data $% \left(1\right) =\left(1\right) \left(1\right) \left($
- A description of any restrictions on data availability

Personal information is not available for patients.

Field-specific reporting				
Please select the or	ne 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 t	ne document with all sections, see <u>nature.com/documents/nr-reporting-summary-flat.pdf</u>			
Life scier	ces study design			
All studies must dis	close on these points even when the disclosure is negative.			
Sample size	Sample size calculation was not pre-determined. Sample size was based on availability of tissues.			
Data exclusions	data was excluded.			
Replication	presented data shows all the relevant patient samples that have been collected. Each patient is considered an individual biological cate.			
Randomization	ent samples were placed into categories based on clinical disease.			
Blinding	No blinding was performed.			
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				
Antibodies used	See Supplementary Material.			
Validation	The antibodies used in this study have all been validated by the relevant manufacturers.			
Human research participants				
Policy information about studies involving human research participants				
Population characteristics Provided in supplementary Table 1.				

Patients were chosen based on the exclusion criteria listed in the manuscript, and the patients were recruited prior to

The Ethical Board for the Capital Region of Denmark approved the study.

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

surgery.

Recruitment

Ethics oversight

Flow Cytometry

Plots

Confirm that:

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	Described in the manuscript.
Instrument	Detailed in the manuscript.
Software	Samples where acquired using a custom Fortessa Flow cytometer and FACS Diva software, and data analyzed using FlowJo software. (Detailed in the manuscript)
Cell population abundance	The manuscript contains flow cytometry analysis of cell populations without cell sorting. The proportions of cell subsets is described in the manuscript.
Gating strategy	Provided in Supplementary Figure 2.

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