

Supplementary information

Preparation of single-cell suspensions from the human placenta

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Validating the quality of single-cell suspensions by immunophenotyping

Briefly, 1×10^6 cells suspended in 1X PBS were incubated with Fixable Viability Stain 510 (BD Biosciences, cat. no. 564406) for 30 min at 4°C. Next, the cell suspensions were centrifuged at 300 x g for 5 min at 20°C and supernatant was aspirated. Cell pellets were then re-suspended with stain buffer (BD Biosciences, cat. no. 554656) prior to blocking with FcR blocking reagent (Miltenyi Biotec, cat. no. 130-059-901) for 5 min at room temperature (20°C). Fluorochrome-conjugated antibodies (see Supplementary Table 1) were added to stain cellular surface markers and the cells were incubated for 30 min at 4°C. The stained cells were then washed twice with stain buffer (BD Biosciences) and acquired using BD LSR Fortessa flow cytometer and FACSDiva software versions 6.0 and 9.0. Flow cytometer plots were generated and analyzed by FlowJo software version 10.

Supplementary Table 1. Fluorochrome-conjugated antibodies

Antibody	Fluorochrome	Company	Cat. No.	RRID
Mouse anti-human CD45	Alexa Fluor 700	BD Biosciences	560566	https://scicrunch.org/resolver/AB_1645452
Mouse anti-human CD3	APC-Cy7	BD Biosciences	557832	https://scicrunch.org/resolver/AB_396890
Mouse anti-human CD4	BUV737	BD Biosciences	612748	https://scicrunch.org/resolver/AB_2870079
Mouse anti-human CD8	BV786	BD Biosciences	563823	https://scicrunch.org/resolver/AB_2687487
Mouse anti-human CD14	BUV395	BD Biosciences	563561	https://scicrunch.org/resolver/AB_2744288
Mouse anti-human CD15	BV650	BD Biosciences	564232	https://scicrunch.org/resolver/AB_2738686
Mouse anti-human CD19	PE-Cy5	BD Biosciences	555414	https://scicrunch.org/resolver/AB_395814
Mouse anti-human CD56	BV711	BD Biosciences	563169	https://scicrunch.org/resolver/AB_2738043
Mouse anti-human CD10	PE	BD Biosciences	555375	https://scicrunch.org/resolver/AB_395775
Mouse anti-human CK7 (Cytokeratin)	FITC	Millipore	CBL194F	https://scicrunch.org/resolver/AB_93342
Mouse anti-human Vimentin	PE	BD Biosciences	562337	https://scicrunch.org/resolver/AB_10897167
Mouse anti-human CD31	APC-Cy7	BD Biosciences	563653	https://scicrunch.org/resolver/%20AB_2738350
Mouse anti-human CD34	BV 605	BD Biosciences	745105	https://scicrunch.org/resolver/AB_2742712
Mouse anti-human CD29	BV421	BD Biosciences	743783	https://scicrunch.org/resolver/AB_2741751