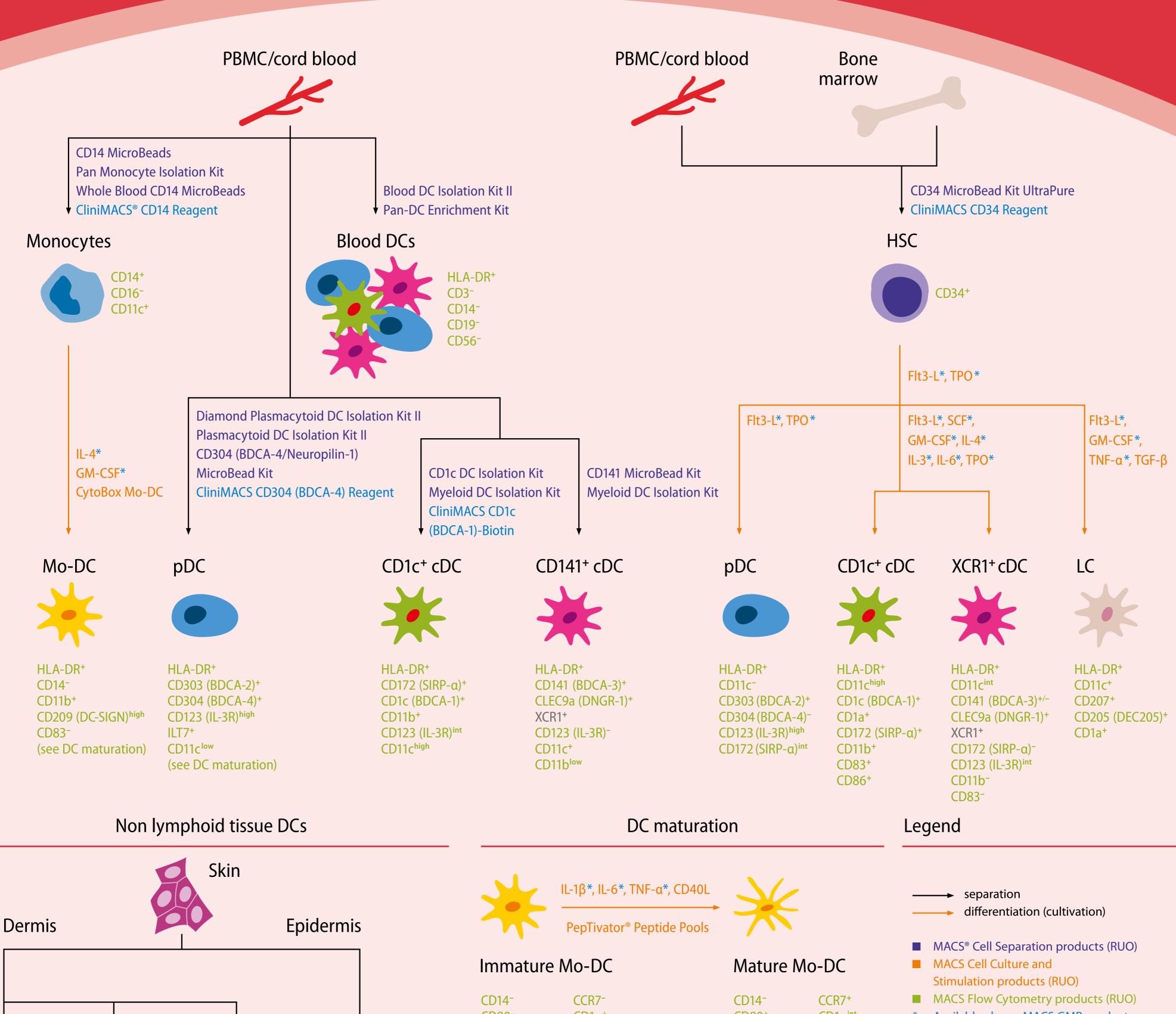


Human dendritic cell generation





CD1a⁺ DC



CD209 (DC-SIGN)

CD14 MicroBeads

MicroBeads

CD11c+ CD1a⁺ CD14+ CD14⁻ CD1a⁻ CD1c (BDCA-1)high CD209 (DC-SIGN)+ CD11bhigh CD163⁻ CD172 (SIRP-α)+ CD1c⁺ CD207-CD207

Dermal

CD1a MicroBeads

CD1c DC Isolation Kit



CD1a⁺ CD14⁻ CD1clow CD141 (BDCA-3)+ XCR1+ Clec9a (DNGR-1)+

LC Dermal CD141+ DC

CD1a MicroBeads

CD141 MicroBead Kit



CD207 (Langerin)

CD1a MicroBeads

MicroBeads

HLA-DR+ CD11chigh CD207+ CD1a⁺ CD205 (DEC205)+ EpCAM+ CD11b+ CD103⁻ CD14⁻

CD1a+ CD80-CD83-CD86^{low} HLA-DR+ CD25-

Immature pDC

CD303 (BDCA-2)+

HLA-DR+

CD80-

CD86-

CD83-

CCR7-

CD40+

CD209 (DC-SIGN)high HLA-ABC+ CD54^{int}

CD80+ CD1aint CD209^{int} CD83+ HLA-DR^{high} CD86^{high} HLA-ABChigh CD25+ CD40^{high} CD54+



PepTivator Peptide Pools

IL-3*, TLR 7/9 Ligands*



HLA-DRhigh

CD80+ CD86+ CD83+ CCR7⁺ CD303 (BDCA-2)low

- Available also as MACS GMP product
- CliniMACS® Reagents

DC: dendritic cell **cDC:** conventional or myeloid DC **pDC:** plasmacytoid DC LC: Langerhans cells **Mo-DC:** monocyte-derived DC **HSC:** hematopoietic stem cell **PBMC:** peripheral blood mononuclear cells

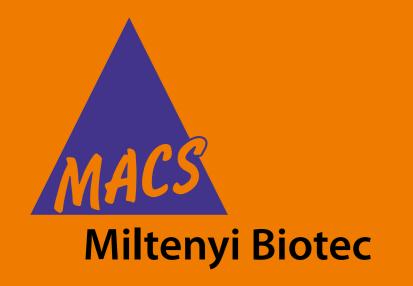
- no expression
- low expression
- intermediate expression
- expression
- high expression
- +/- expression dependent on subset and tissue



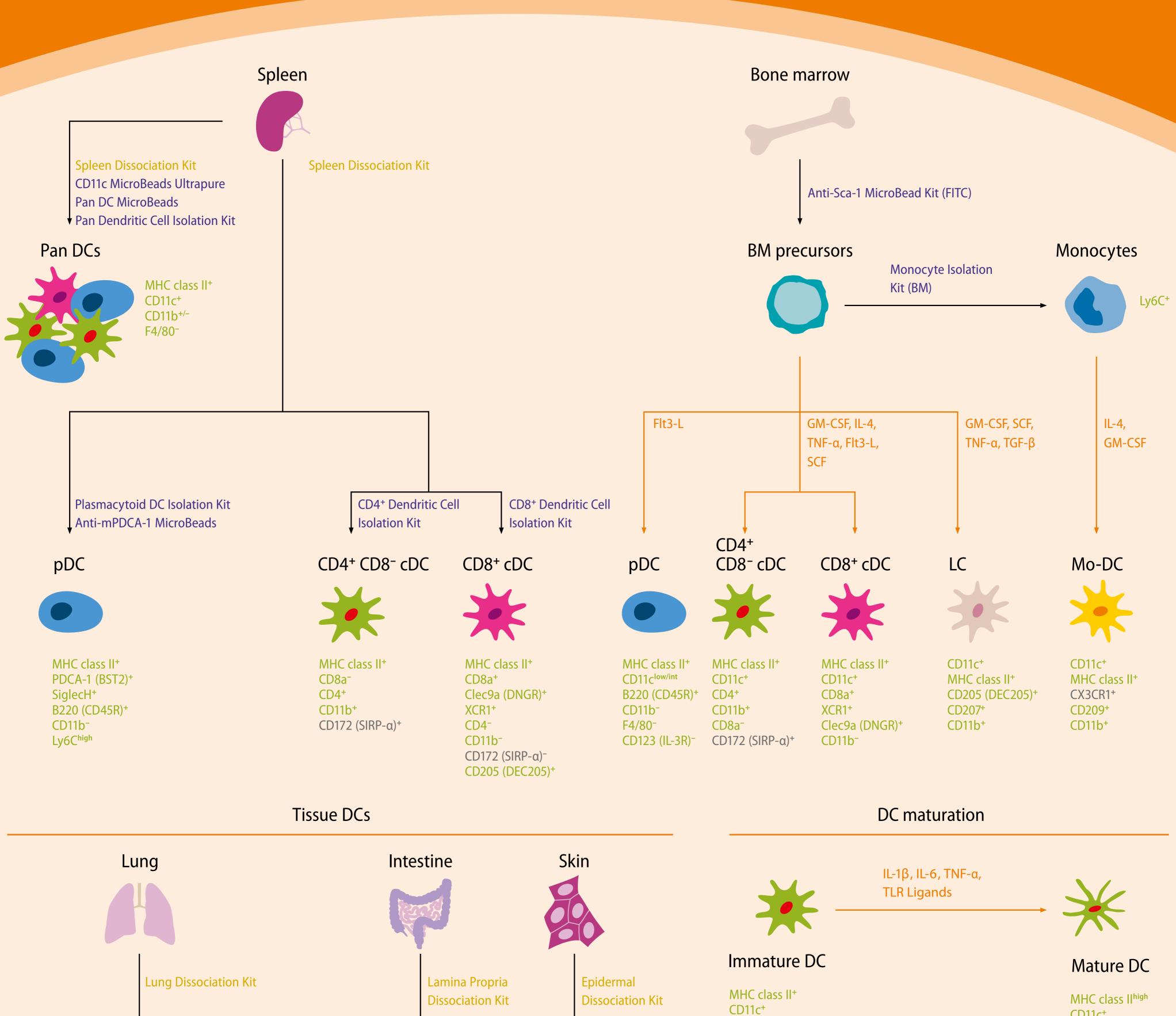
iltenyi Biotec GmbH | Friedrich-Ebert-Straße 68 | 51429 Bergisch Gladbach | Germany | Phone +49 2204 8306-0 | Fax +49 2204 85197 macs@miltenyibiotec.de | www.miltenyibiotec.com

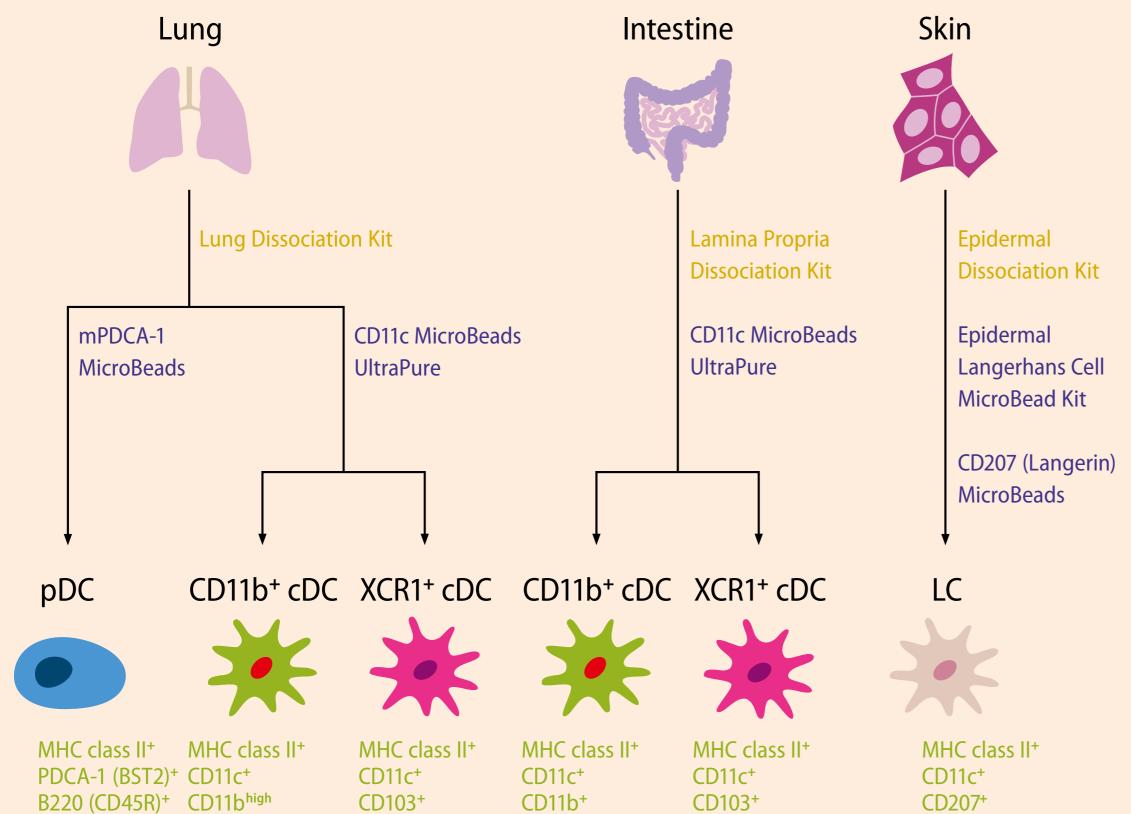
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miltenyibiotec.com



Mouse dendritic cell generation





CX3CR1⁺

CD8-

CD103-

CD14+

XCR1+

CD11b

CD8^{low}

Clec9a (DNGR)+

CD11b+ CD205 (DEC205)+ CD103-F4/80⁺ CX3CR1CD11c+ CD80+ CD86+

CCR7⁺

differentiation (cultivation)

- MACS® Cell Separation products
- MACS Cell Culture and Stimulation products
- MACS Flow Cytometry products MACS Sample Preparation products

separation

CD80-

CD86⁻

CCR7-

Legend

DC: dendritic cell **cDC:** conventional or myeloid DC **pDC:** plasmacytoid DC **LC:** Langerhans cells Mo-DC: monocyte-derived DC **BM:** bone marrow

- no expression
- low low expression
- intermediate expression
- expression
- high expression
- +/- expression dependent on subset and tissue



SiglecH⁺

CD11b Ly6Chigh

CD11clow

miltenyibiotec.com

XCR1+

CD11blow

CD207+

Clec9a (DNGR)+

CD172 (SIRP-α)+

CD103-

CD64⁻