



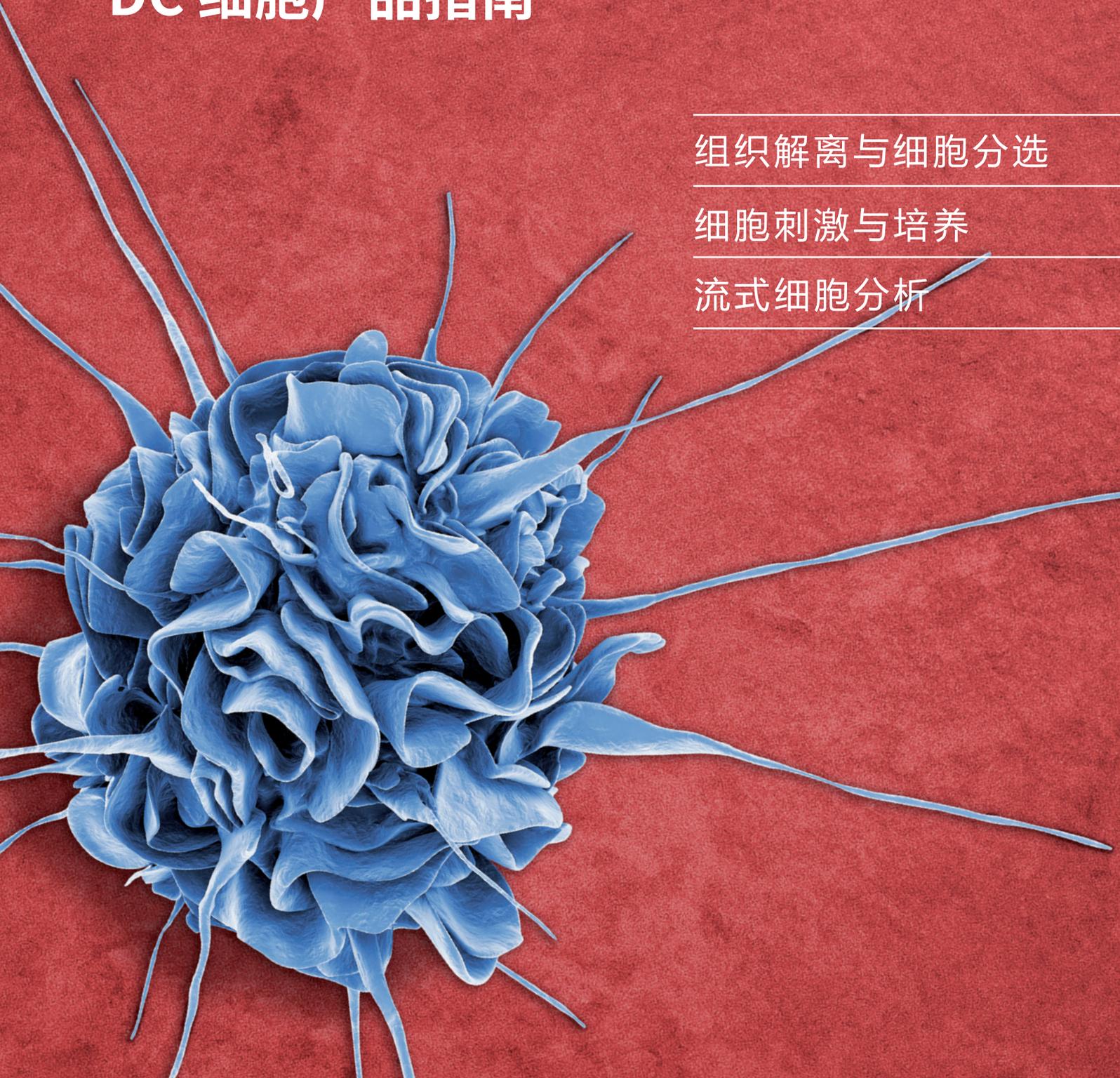
Miltenyi Biotec

DC 细胞产品指南

组织解离与细胞分选

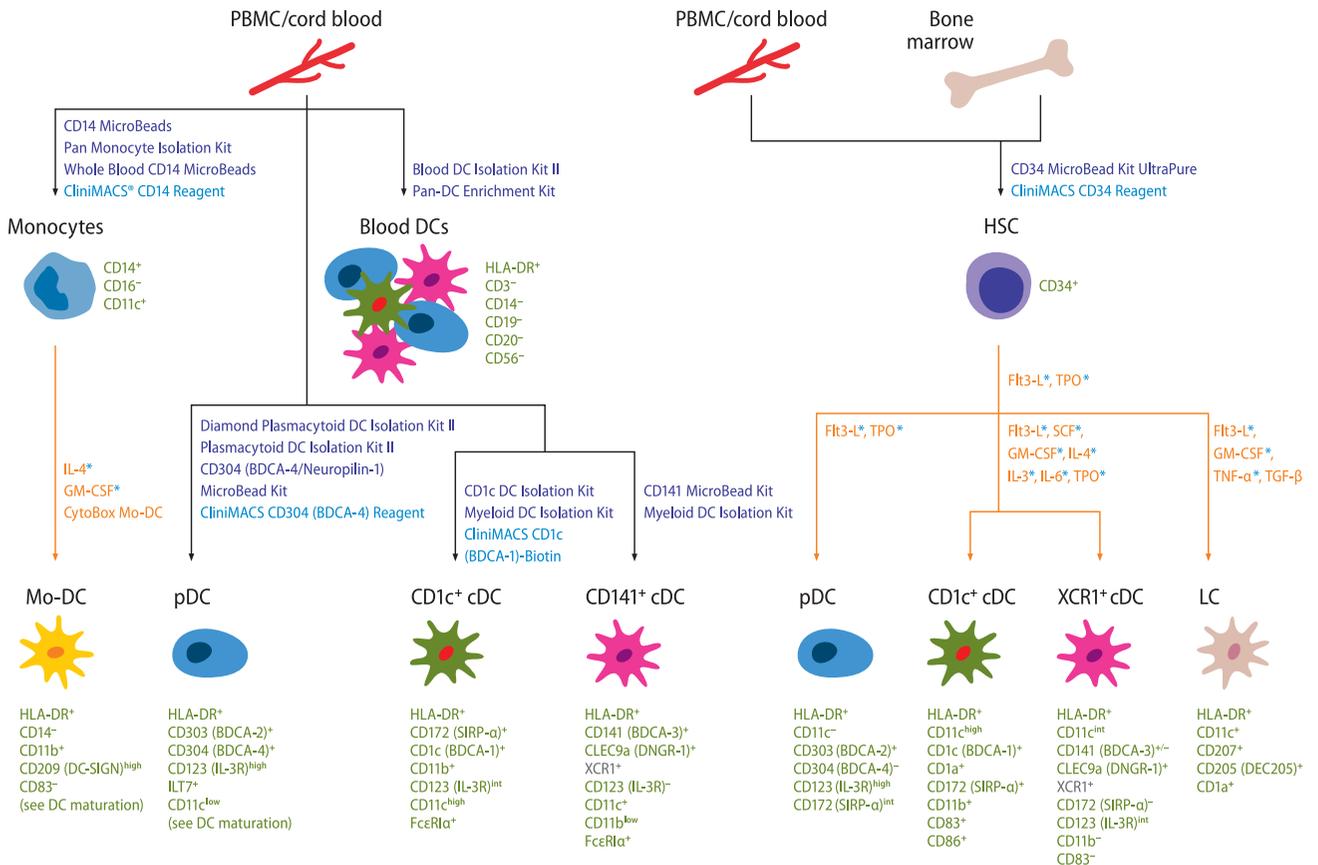
细胞刺激与培养

流式细胞分析

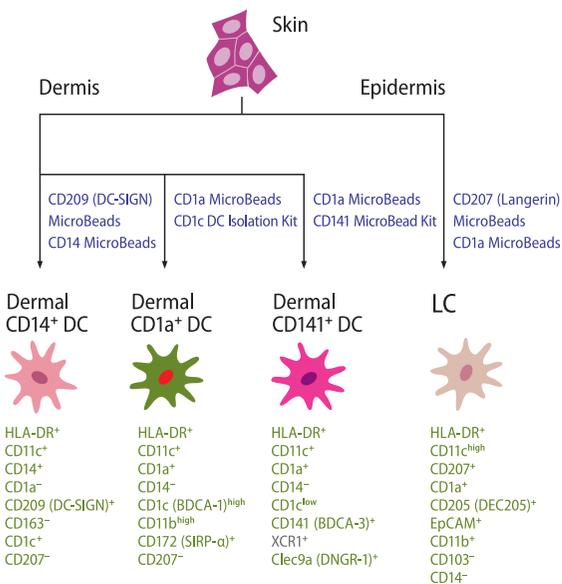


Human dendritic cell generation

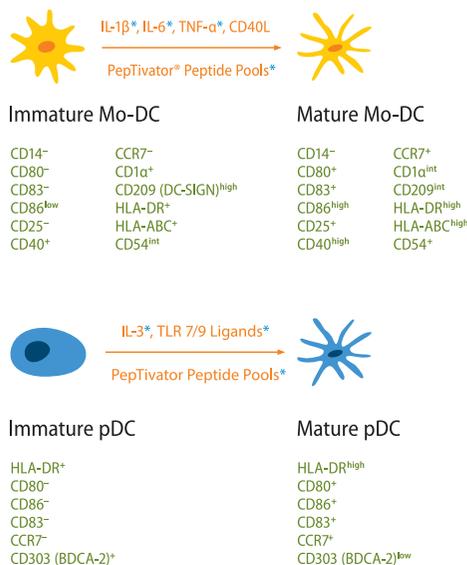
Overview



Non-lymphoid tissue DCs



DC maturation

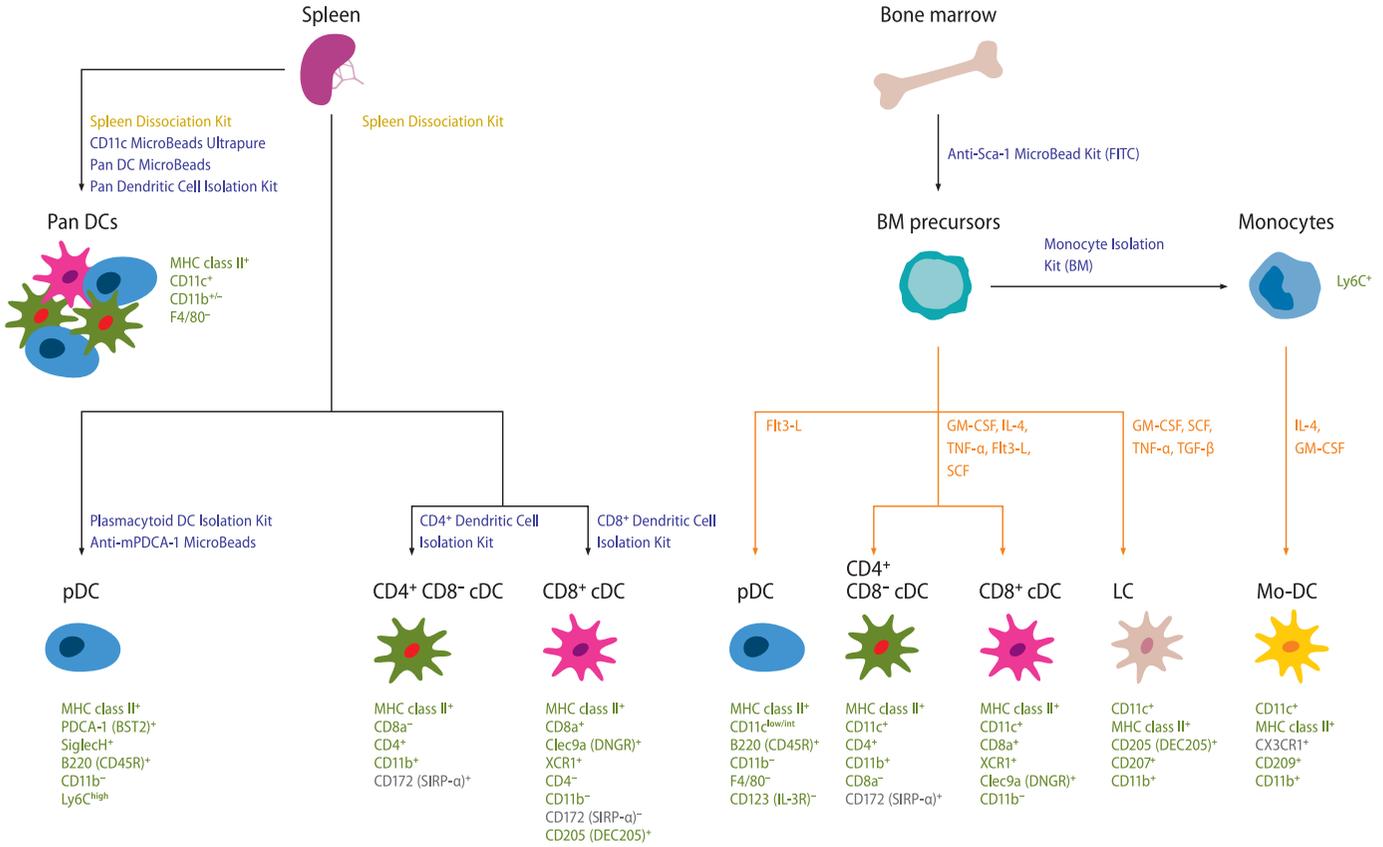


Legend

- separation
- differentiation (cultivation)
- MACS[®] Cell Separation products (RUO)
- MACS Cell Culture and Stimulation products (RUO)
- MACS Flow Cytometry products (RUO)
- * 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 low expression
- int intermediate expression
- + expression
- high high expression
- +/- expression dependent on subset and tissue

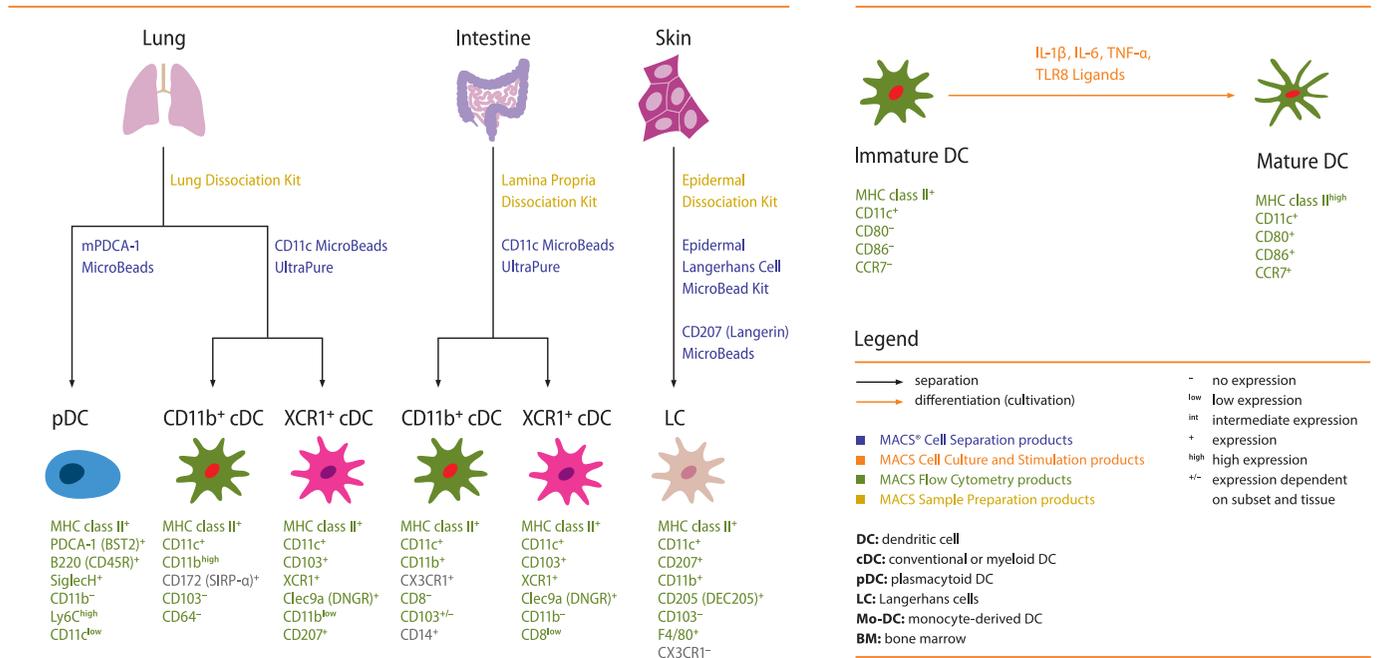
Mouse dendritic cell generation

Overview



Non-lymphoid tissue DCs

DC maturation



Human

Product tables

Cell separation reagents

Products	Order no.
CD14 MicroBeads	130-050-201
Pan Monocyte Isolation Kit	130-096-537
StraightFrom Whole Blood CD14 MicroBeads	130-090-879
Blood Dendritic Cell Isolation Kit II	130-091-379
Pan-DC Enrichment Kit	130-100-777
Diamond Plasmacytoid Dendritic Cell Isolation Kit II	130-097-240
Plasmacytoid Dendritic Cell Isolation Kit II	130-097-415
CD304 (BDCA-4/Neuropilin-1) MicroBead Kit	130-090-532
CD1c (BDCA-1)+ Dendritic Cell Isolation Kit	130-090-506
Myeloid Dendritic Cells Isolation Kit	130-094-487
CD141 (BDCA-3) MicroBead Kit	130-090-512
CD207 (Langerin) MicroBeads	130-097-898
CD1a MicroBeads	130-051-001
CD209 (DC-SIGN) MicroBead Kit	130-092-868

For more information visit:

www.miltenyibiotec.com/dendriticcells

Cell culture reagents

Products	Research grade	Premium grade	MACS® GMP
Human IL-4	●	●	●
Human GM-CSF	●	●	●
Human IL-6	●	●	●
Human IL-1β	●	●	●
Human TNF-α	●	●	●
CytoBox Mo-DC		●	
Human SCF	●	●	●
Human Flt3-Ligand	●	●	●
Human TPO	●	●	●
Human IL-3	●	●	●
Human TGF-β1		●	
TLR9-Ligands	●		●
TLR7/8-Ligands	●		
PepTivators (Peptide pools)	●	●	●

For more information about custom fillings and cocktails visit:

www.miltenyibiotec.com/cellculture

Flow cytometry antibodies

Antigen	Vio-Blue®	Vio-Green™	FITC	VioBright™ FITC	PE	PerCP	PerCP-Vio® 700	PE-Vio 615	PE-Vio 770	APC	APC-Vio 770	Biotin	REAlity
Mo/Mo-DC													
CD14		●	●		●	●	●	●	●	●	●	●	
CD16	●	●	●		●		●	●	●	●	●	●	●
CD11c	●		●	●	●		●		●	●	●	●	●
HLA-DR	●	●	●		●	●	●		●	●	●	●	●
HLA-ABC	●	●	●		●		●	●	●	●	●	●	●
CD80					●				●	●		●	●
CD86	●		●		●		●		●	●		●	
CD83					●				●	●		●	
CCR7	●		●		●		●		●	●		●	●
CD25				●	●					●		●	●
CD40					●				●	●		●	
CD54					●			●	●	●		●	●
CD1a	●		●		●				●	●	●	●	●
CD209 (DC-SIGN)	●		●		●		●		●	●	●	●	●
Pan DC													
HLA-DR	●	●	●		●	●	●	●	●	●	●	●	●
CD3	●	●	●		●	●	●	●	●	●	●	●	●
CD14	●	●	●		●	●	●	●	●	●	●	●	●
CD19	●	●	●	●	●		●	●	●	●	●	●	●
CD56			●	●	●		●	●	●	●	●	●	●
CD20	●	●	●		●			●	●	●	●	●	●

Human

Product tables

Flow cytometry antibodies

Antigen	Vio-Blue®	Vio-Green™	FITC	VioBright™ FITC	PE	PerCP	PerCP-Vio® 700	PE-Vio 615	PE-Vio 770	APC	APC-Vio 770	Biotin	REAFinity
pDC													
HLA-DR	●	●	●		●	●	●	●	●	●	●	●	●
CD11c	●		●	●	●		●		●	●	●	●	●
CD303 (BDCA-2)	●		●	●	●		●	●	●	●	●	●	●
CD304 (BDCA-4)				●	●				●	●		●	
CD123 (IL-3R)	●	●	●		●		●	●	●	●	●	●	
CD85g (ILT7)			●		●				●	●		●	●
CD172a (SIRP-α)			●		●				●	●	●	●	●
myeloid DC													
HLA-DR	●	●	●		●	●	●	●	●	●	●	●	●
CD11c	●		●	●	●		●		●	●	●	●	●
CD1c (BDCA-1)			●	●	●				●	●		●	●
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
CD123 (IL-3r)	●	●	●		●		●	●	●	●	●	●	
CD141 (BDCA-3)	●		●	●	●		●		●	●	●	●	●
CLEC9A	●		●	●	●					●		●	
CD1a	●		●		●				●	●	●	●	
CD14	●	●	●		●	●	●	●	●	●	●	●	●
CD207	●		●		●				●	●	●	●	
CD172a (SIRP-α)			●		●				●	●	●	●	●
CD209 (DC-SIGN)	●		●		●		●		●	●	●	●	●
CD163	●		●		●				●	●		●	
FcεR1α			●		●		●		●	●	●		●
LC													
HLA-DR	●	●	●		●	●	●	●	●	●	●	●	●
CD11c	●		●	●	●		●		●	●	●	●	●
CD207	●		●		●				●	●	●	●	
CD1a	●		●		●		●		●	●	●	●	●
CD205 (DEC205)				●	●				●	●		●	
CD326 (EpCAM)	●		●		●			●	●	●	●	●	
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
CD103			●		●		●		●	●	●		●
CD14	●	●	●		●	●	●	●	●	●	●	●	●

For more information about MACS Antibodies and recombinantly generated REAFinity Antibodies visit www.miltenyibiotec.com/antibodies
 For customized fillings or bulk requests of pure antibodies for mass cytometry please go to: www.miltenyibiotec.com/CyTOF

Flow cytometry cocktails and kits

Products	Order no.
MC CD14 Monocyte Cocktail	130-092-859
Mo-DC Differentiation Inspector	130-093-567
Blood Dendritic Cell Enumeration Kit	130-091-086 130-091-324

CliniMACS® Reagents

Products
CliniMACS® CD14 Reagent
CliniMACS CD304 (BDCA-4) Reagent
CliniMACS CD1c (BDCA-1)-Biotin

Mouse

Product tables

Tissue dissociation reagents

Product	Order no.
Spleen Dissociation Kit	130-095-926
Lung Dissociation Kit	130-095-927
Epidermis Dissociation Kit	130-095-928
Lamina Propria Dissociation Kit	130-097-410
Multi Tissue Dissociation Kit 1	130-110-201
Multi Tissue Dissociation Kit 2	130-110-203
Multi Tissue Dissociation Kit 3	130-110-204

For more information visit:

www.miltenyibiotec.com/startsmart

Cell separation reagents

Product	Order no.
CD11c MicroBeads Ultrapure	130-125-835
Pan DC MicroBeads	130-092-465
Pan Dendritic Cell Isolation Kit	130-100-875
Plasmacytoid Dendritic Cell Isolation Kit	130-107-093
Anti-mPDCA-1 MicroBeads	130-091-965
CD4 ⁺ Dendritic Cell Isolation Kit	130-091-262
CD8 ⁺ Dendritic Cell Isolation Kit	130-091-169
Epidermal Langerhans Cell MicroBead Kit	130-095-408
CD207 (Langerin) MicroBeads	130-097-572

For more information visit:

www.miltenyibiotec.com/dendriticcells

Cell culture reagents

Product	Research grade	Premium grade
Mouse IL-4	●	●
Mouse GM-CSF	●	●
Mouse Flt3-Ligand	●	●
Mouse TNF α	●	●
Mouse IL-6	●	●
Mouse IL-1 β	●	●
Mouse SCF	●	●
Human TGF- β 1		●
TLR9-Ligands	●	
TLR7/8-Ligands	●	

For more information about custom fillings and cocktails visit:

www.miltenyibiotec.com/cellculture



For more information about our instruments visit:

www.miltenyibiotec.com/MACS-Automation

www.miltenyibiotec.com/flow-cytometers

www.miltenyibiotec.com/gentleMACS

Mouse

Product tables

Flow cytometry antibodies

Antigen	Vio-Blue®	Vio-Green®	FITC	VioBright™ FITC	PE	PerCP	PerCP-Vio® 700	PE-Vio 615	PE-Vio 770	APC	APC-Vio 770	Biotin	REAffinity
Pan DC													
MHC Class II	●	●	●		●		●			●		●	
CD11c	●		●		●		●		●	●	●	●	
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
F4/80			●		●		●	●	●	●		●	●
pDC													
MHC Class II	●	●	●		●		●			●		●	
CD11c	●		●		●		●		●	●	●	●	
mPDCA-1			●		●					●		●	
SiglecH			●		●					●		●	
CD45R (B220)	●	●	●		●	●	●		●	●	●	●	
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
Ly-6C	●	●	●		●		●		●	●	●	●	
cDC													
MHC Class II	●	●	●		●		●			●		●	
CD11c	●		●		●		●		●	●	●	●	
CD8a	●	●	●	●	●	●	●	●	●	●	●	●	●
CD4	●	●	●	●	●		●		●	●	●	●	●
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
CLEC9A				●	●							●	
XCR1				●	●	●	●		●	●	●	●	●
CD103			●		●					●		●	
CD64					●				●	●	●	●	●
CD205 (DEC205)					●				●	●		●	
CD207	●		●		●				●	●		●	
LC													
MHC Class II	●	●	●		●		●			●		●	
CD11c	●		●		●		●		●	●	●	●	
CD207	●		●		●				●	●		●	
CD11b	●	●	●	●	●		●	●	●	●	●	●	●
CD205 (DEC205)					●				●	●		●	
CD103			●		●					●		●	
F4/80			●		●		●	●	●	●	●	●	●

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