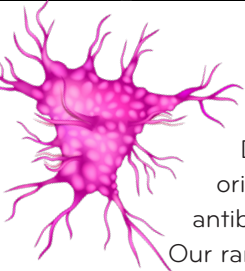


Dendritic Cell Research Reagents

Tools for Decoding Dendritic Cell Biology

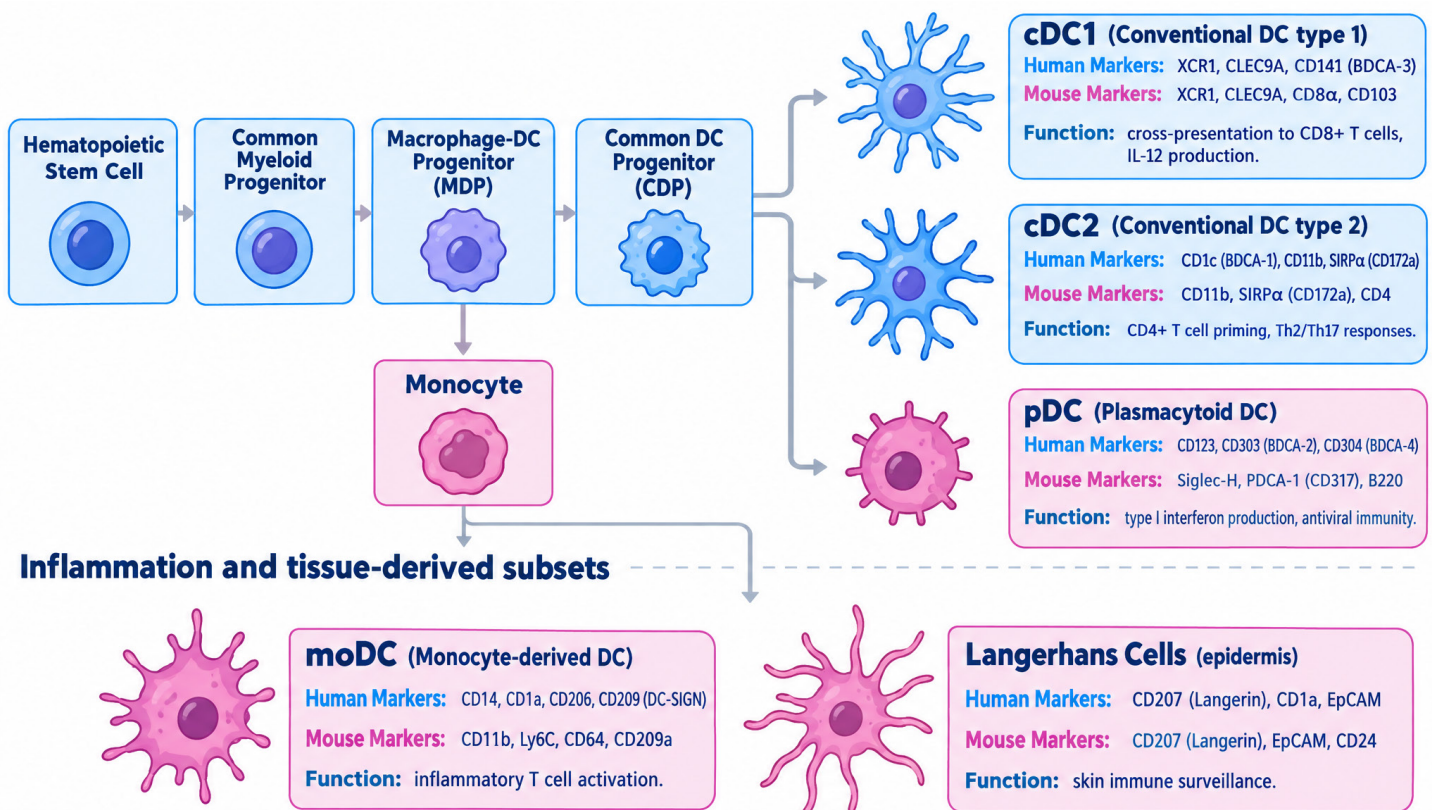
InnoCyto



Dendritic cells (DCs) are the immune system's professional antigen-presenting cells. They sample their surroundings, process antigens, and activate naive T cells. This links innate sensing to adaptive immunity. DCs are not one uniform population. They include several subsets, such as cDC1, cDC2, plasmacytoid DCs, monocyte-derived DCs, and Langerhans cells. Each subset has its own surface markers, developmental origin, and immune function. Studying them requires reliable, well-characterized reagents. InnoCyto offers antibodies, recombinant proteins, and cytokines for identifying, isolating, and functionally studying DC subsets. Our range includes flow cytometry antibodies for subset phenotyping and cytokines for DC differentiation and maturation. Together they help you go from basic immunology to immunotherapy research.

Lineage Map of DC Subsets

Hematopoietic stem cells give rise to the common DC progenitor (CDP), which develops into conventional DC type 1 (cDC1), conventional DC type 2 (cDC2), and plasmacytoid DCs (pDCs). Monocytes, which arise from the macrophage-DC progenitor (MDP), give rise to monocyte-derived DCs (moDCs) during inflammation, while Langerhans cells are tissue-resident DCs of the epidermis. Representative human and mouse surface markers and key functions are listed for each subset, and marker expression can vary with tissue and activation state.



Flow Cytometry Antibodies

Antigen	Antibody Clones	Formats
Human CD1c	L161	Purified, iF647
Human CD4	004AB, OKT4-Rec, RPA-T4, SK3	APC, APC/Cyanine7, Biotin, FITC, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PerCP/Cyanine5.5, Purified, iF488, iF560, iF647, iF700
Human CD4	004CB	InnoSite™: PB, iF488, iF560, iF647, iF700
Mouse CD4	GK1.5, RM4-5	APC, APC/Cyanine7, Biotin, FITC, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PerCP/Cyanine5.5, Purified, iF488, iF647, iF700
Human CD8, CD8a	SK1, OKT8, RPA-T8, HIT8a	APC, APC/Cyanine7, APC/iF700, Biotin, FITC, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PE/iF594, PerCP/Cyanine5.5, Purified, iF488, iF560, iF647, iF700
Human CD8, CD8a	008aCB	InnoSite™: PB, iF488, iF560, iF647, iF700
Mouse CD8a	53-6.7	APC, APC/Cyanine7, Biotin, FITC, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PerCP/Cyanine5.5, Purified, iF488, iF560, iF647, iF700
Mouse CD8b	YTS156.7.7	FITC, Purified, iF488, iF647
Human CD11b, ITGAM, integrin α M	O11bAB, O11bAM1	APC, Biotin, FITC, PE, Purified, iF488, iF560, iF647, iF700
Human, Mouse CD11b, ITGAM, integrin α M	M1/70	APC, APC/Cyanine7, Biotin, FITC, PB, PE, PE/Cyanine7, PerCP/Cyanine5.5, Purified, iF488, iF647
Mouse CD11c, integrin α X, CR4, ITGAX	N418, N418-mG1	APC, FITC, PB, PE, PE/Cyanine7, Purified, iF560, iF647, iF700
Human CD14	63D3, M5E2	APC, APC/Cyanine7, Biotin, PB, PE, PE/Cyanine7, Purified, iF488, iF647, iF700
Human CD40	Dacetuzumab, O40AM1	APC, FITC, PE, PE/iF594, Purified, iF488, iF647
Mouse CD40	FGK4.5, FGK4.5-m2a	Purified
Human, Mouse CD45R, B220	RA3-6B2	APC/Cyanine7, Biotin, FITC, PE, PE/Cyanine5.5, PE/Cyanine7, Purified, iF488, iF647
Human CD49d	9F10	APC/Cyanine7, PE, Purified, iF647
Mouse CD49d	R1-2	FITC, Purified, iF488, iF647, iF700
Human CD80, B7-1	2D10, Galiximab	APC, APC/Cyanine7, FITC, Purified, iF488, iF647
Mouse CD80, B7-1	16-10A1	APC, PE, PE/Cyanine7, Purified, iF488, iF647, iF700
Human CD86	IT2.2	APC/Cyanine7, PE/Cyanine7, Purified, iF488, iF647
Mouse CD86	GL-1	PE, Purified, iF647
Human CD197, CCR7	197AM2a, 197AR2a	APC, Biotin, FITC, PE, Purified, iF488, iF647
Mouse CD273	TY25	APC, PE, Purified
Human CD282	282AM2a	FITC, Purified, iF488, iF647
Mouse CD370, CLEC9A	10B4	Purified
Mouse H-2	M1/42	APC, Biotin, FITC, PB, PE, Purified, iF488, iF647, iF700
Human HLA-DR, MHC class II	1003AB, L243	APC, APC/Cyanine7, Biotin, FITC, PB, PE, PE/Cyanine5.5, PE/Cyanine7, PE/iF594, Purified, iF488, iF560, iF647
Human HLA-DR, MHC class II	HLADRCB	InnoSite™: FITC, PB, iF560, iF700
Human IFN γ	4S.B3	FITC, PE, Purified, iF488, iF647
Human IL-4	MP4-25D2	Purified, iF647

Recombinant Proteins & Cytokines

Protein Name	Species	Format
CD4	Human	APC, Biotin, PE, Purified
CD8 α	Human	APC, Biotin, PE, Purified
CD80, B7-1	Human	APC, Biotin, PE, Purified
CD86, B7-2	Human	APC, Biotin, PE, Purified
CD273, PDL2, Butyrophilin B7-DC	Human	APC, Biotin, PE, Purified
CD274, PD-L1, B7-H1, PDCD1L1	Human	APC, Biotin, PE, Purified
CD279, PD1, PDCD1, SLEB2	Human	APC, Biotin, PE, Purified

Cytokine	Species	Format
GM-CSF	Human, Mouse	Carrier-free
IFN γ	Human	Carrier-free
IL-4	Human	Carrier-free
IL-6	Human	Carrier-free
IL-10	Human	Carrier-free
IL-12	Human	Carrier-free
TGF- β	Human	Carrier-free