

Technical Data Sheet

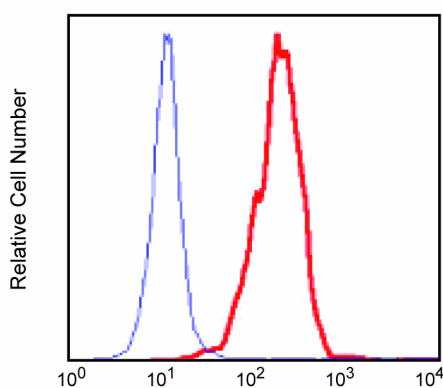
PE Mouse anti-Human CD205 (DEC-205)

Product Information

Material Number:	558069
Alternate Name:	DEC-205; Lymphocyte Antigen 75; CLEC13B
Size:	100 tests
Vol. per Test:	20 µl
Clone:	MG38
Isotype:	Mouse IgG2b
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

Reacts with DEC-205, a 205 kDa transmembrane protein with C-type lectin external domains, present on dendritic cells (DC) and some epithelia. It is being described as a multilectin receptor for adsorptive endocytosis. MG38 antibody reacted with mature monocyte-derived DC and also with B cells, monocytes and weakly on T cells and NK cells. Antibody MG38 is useful for the study of DC development.



Flow cytometric analysis of Human CD205 on dendritic cells. Monocyte-derived cultured dendritic cells were stained with either PE Mouse anti-Human CD205 (Cat. No. 558069; bold red line) or with PE Mouse IgG2b κ Isotype Control (Cat. No. 555743; thin blue line) and analyzed by flow cytometry.

PE anti-CD205 and Isotype Control

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Suggested Companion Products

Catalog Number	Name	Size	Clone
555743	PE Mouse IgG2b κ Isotype Control	100 tests	27-35
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)

Product Notices

1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
2. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100-µl experimental sample (a test).
3. An isotype control should be used at the same concentration as the antibody of interest.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Guo M, Gong S, Maric S, Misulovin Z, Pack M, Mahnke K, Nussenzweig MC, Steinman RM. A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. *Hum Immunol*. 2000 August; 61(8):729-738. (Biology)

Kato M, Neil TK, Clark GJ, Morris CM, Sorg RV, Hart DN. cDNA cloning of human DEC-205, a putative antigen-uptake receptor on dendritic cells. *Immunogenetics*. 1998; 47(6):442-450. (Biology: In situ hybridization, Northern blot)

Kato M, Neil TK, Fearnley DB, McLellan AD, Vuckovic S, Hart DN. Expression of multilectin receptors and comparative FITC-dextran uptake by human dendritic cells. *Int Immunol*. 2000; 12(11):1511-1519. (Methodology: Flow cytometry)

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