Technical Data Sheet

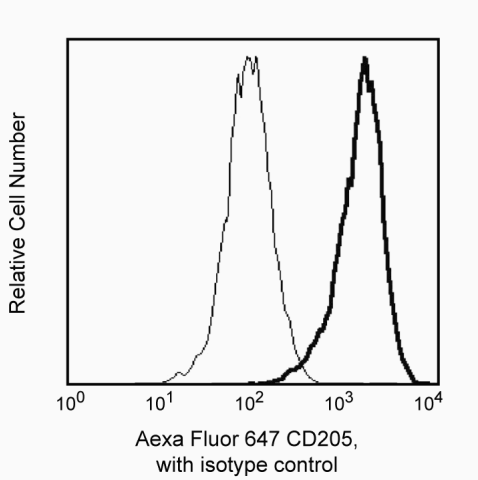
Alexa Fluor® 647 Mouse Anti-Human CD205

Product Information

Material Number:	**558156**
Alternate Name:	DEC-205
Size:	0.1 mg
Concentration:	0.2 mg/ml
Clone:	MMRI-7
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	NA
Storage Buffer:	Aqueous buffered solution containing ≤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. Reports indicate that CD205 (DEC-205) mRNA levels increase significantly during activation. In monocyte derived dendritic cells, the expression of CD205 increased during maturation. Antibody MMRI-7 is useful for the study of DC development.



Profile of CD205 (MMRI-7) reactivity on monocyte-derived cultured dendritic cells analyzed by flow cytometry

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
The antibody was conjugated to Alexa Fluor® 647 under optimum conditions, and unreacted Alexa Fluor® 647 was removed.
Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
557732	Alexa Fluor® 647 Mouse IgG1 κ Isotype Control	100 tests	MOPC-21

Product Notices

1. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.

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4. The Alexa Fluor®, Pacific Blue™, and Cascade Blue® dye antibody conjugates in this product are sold under license from Molecular Probes, Inc. for research use only, excluding use in combination with microarrays, or as analyte specific reagents. The Alexa Fluor® dyes (except for Alexa Fluor® 430), Pacific Blue™ dye, and Cascade Blue® dye are covered by pending and issued patents.
5. Alexa Fluor® 647 fluorochrome emission is collected at the same instrument settings as for allophycocyanin (APC).
6. Alexa Fluor is a registered trademark of Molecular Probes, Inc., Eugene, OR.
7. 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.

References

Guo M, Gong S, Maric S, et al. A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. *Hum Immunol.* 2000; 61(8):129-738. (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)

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. (Biology)