

Technical Data Sheet

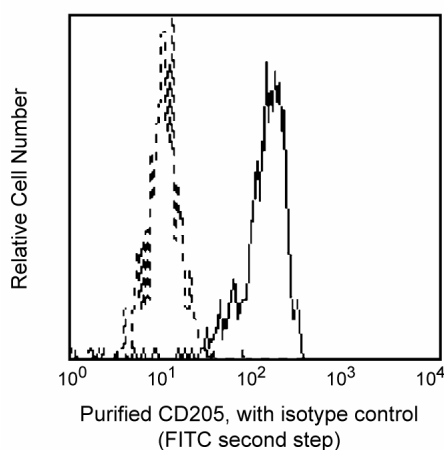
Purified Mouse Anti-Human CD205

Product Information

Material Number:	557778
Alternate Name:	DEC-205; Lymphocyte Antigen 75; LY75; Ly-75; CLEC13B; GP200-MR6
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	MMRI-7
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Workshop:	VII
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The MMRI-7 monoclonal antibody specifically recognizes CD205 which is also known as DEC-205, Lymphocyte antigen 75 (Ly-75), or C-type lectin domain family 13 member B (CLEC13B). CD205 is a ~205 kDa type I transmembrane glycoprotein with C-type lectin external domains. DEC-205 is expressed on myeloid and plasmacytoid dendritic cells, thymic epithelial cells, and at lower levels on monocytes, T cells, B cells, and natural killer (NK) cells. DEC-205 likely functions as an endocytic receptor and is involved in antigen uptake and processing.



Flow cytometric analysis of CD205 expression on human peripheral blood monocytes. Whole blood was stained with either Purified Mouse Anti-Human CD205 (Cat. No. 557778; solid line histogram) or Purified Mouse IgG1, κ Isotype Control (Cat. No. 555746; dashed line histogram), followed by FITC Goat Anti-Mouse IgG/IgM (Cat. No. 555988). Erythrocytes were lysed with BD Pharm Lyse™ Lysing Buffer (Cat. No. 555899). Fluorescent histograms were derived from gated events with the side and forward light-scattering characteristics of viable monocytes.

Preparation and Storage

Store undiluted at 4°C.

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

Application Notes

Application

Flow cytometry	Routinely Tested
----------------	------------------

Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, κ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal
349202	BD FACS™ Lysing Solution	100 mL	(none)
555899	Lysing Buffer	100 mL	(none)

BD Biosciences

bdbiosciences.com

United States 877.232.8995 Canada 866.979.9408 Europe 32.2.400.98.95 Japan 0120.8555.90 Asia Pacific 65.6861.0633 Latin America/Caribbean 55.11.5185.9995

For country contact information, visit bdbiosciences.com/contact

Conditions: The information disclosed herein is not to be construed as a recommendation to use the above product in violation of any patents. BD Biosciences will not be held responsible for patent infringement or other violations that may occur with the use of our products. Purchase does not include or carry any right to resell or transfer this product either as a stand-alone product or as a component of another product. Any use of this product other than the permitted use without the express written authorization of Becton, Dickinson and Company is strictly prohibited.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Not for resale.
© 2017 BD. BD, the BD Logo and all other trademarks are property of Becton, Dickinson and Company.

557778 Rev. 3



554656	Stain Buffer (FBS)	500 mL	(none)
554657	Stain Buffer (BSA)	500 mL	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. An isotype control should be used at the same concentration as the antibody of interest.
3. 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.
4. Sodium azide is a reversible inhibitor of oxidative metabolism; therefore, antibody preparations containing this preservative agent must not be used in cell cultures nor injected into animals. Sodium azide may be removed by washing stained cells or plate-bound antibody or dialyzing soluble antibody in sodium azide-free buffer. Since endotoxin may also affect the results of functional studies, we recommend the NA/LE (No Azide/Low Endotoxin) antibody format, if available, for in vitro and in vivo use.
5. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.

References

- Kato M, MacDonald K, Munster D, Clark GJ, Hart DNJ. CD205 (DEC-205) Workshop Panel report. In: Mason D, David Mason .. et al., ed. *Leucocyte typing VII : white cell differentiation antigens : proceedings of the Seventh International Workshop and Conference held in Harrogate, United Kingdom*. Oxford: Oxford University Press; 2002:298-300. (Clone-specific)
- Guo M, Gong S, Maric S, et al. A monoclonal antibody to the DEC-205 endocytosis receptor on human dendritic cells. *Hum Immunol*. 2000 August; 61(8):729-738. (Biology)
- Kato M, Khan S, Gonzalez N, et al. Hodgkin's lymphoma cell lines express a fusion protein encoded by intergenically spliced mRNA for the multilectin receptor DEC-205 (CD205) and a novel C-type lectin receptor DCL-1. *J Biol Chem*. 2003; 278(36):34035-41. (Clone-specific)
- 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)