SONY

Product Data Sheet

Purified anti-human CD170 (Siglec-5)

Catalog # / Size: 2360010 / 100 µg

Clone: 1A5

Isotype: Mouse IgG1, κ

Immunogen: Extracellular region of Siglec-5

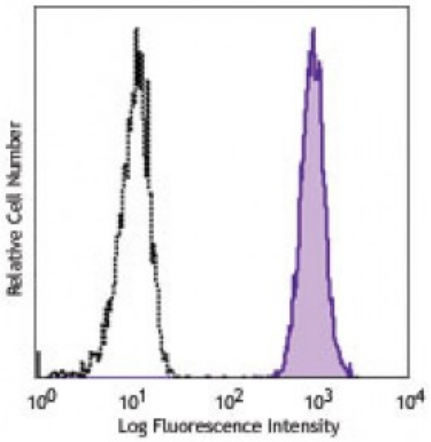
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: VII 70443

Concentration: 0.5



Human peripheral blood granulocytes were stained with Siglec-5 (clone 1A5) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Applications:

Applications: Other

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The 1A5 antibody cross-reacts with Siglec-144. Additional reported applications (for the relevant formats) include: ELISA2.

Application References:

1. Cornish AL, *et al.* 1998. *Blood* 92:2123.
2. Nguyen DH, *et al.* 2006. *P. Natl. Acad. Sci. USA* 103:7765. (FC, ELISA)
3. Connolly NP, *et al.* 2002. *Br. J. Haematol.* 119:221.
4. Angata T, *et al.* 2006. *FASEB J.* 20:1964.
5. Avril T, *et al.* 2005. *J. Biol. Chem.* 280:19843.

Description: CD170, also known as Siglec-5, is a single pass transmembrane protein member of the immunoglobulin superfamily. On the cell surface, CD170 forms a 140 kD dimer. The cytoplasmic domain of Siglec-5 contains two ITIM motifs that recruit the tyrosine-phosphatases SHP-1 and SHP-2 after tyrosine-phosphorylation, which in turn results in the inhibition of cell signaling. Siglec-5 is expressed by granulocytes, monocytes/macrophages, subsets of lymphocytes, and a subset of activated dendritic cells. Siglec-5 binds α2,3- and α2,6-linked sialic acid as well as glycophorin A, and is involved in cell adhesion.

Antigen References:

1. Soto PC, *et al.* 2010. *J. Immunol.* 184:4185.
2. Carlin AF, *et al.* 2009. *J. Exp. Med.* 206:1691.
3. Zhuravleva MA. 2008. *J. Mol. Biol.* 375:437.

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