

PE anti-human CD170 (Siglec-5)

Catalog # / Size: 2360020 / 100 tests
2360015 / 25 tests

Clone: 1A5

Isotype: Mouse IgG1, κ

Immunogen: Extracellular region of Siglec-5

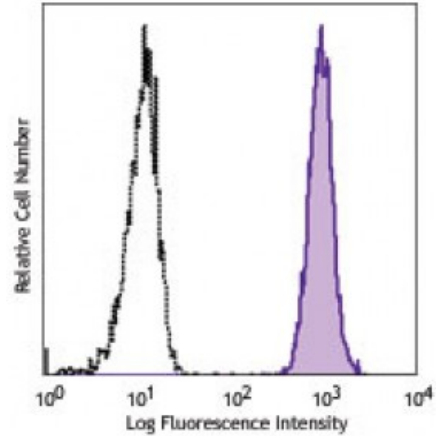
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: VII 70443

Concentration: Lot-specific



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: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 microL to 5 microL per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 microL staining volume or per 100 microL of whole blood. 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:**
- Cornish AL, *et al.* 1998. *Blood* 92:2123.
 - Nguyen DH, *et al.* 2006. *P. Natl. Acad. Sci. USA* 103:7765. (FC, ELISA)
 - Connolly NP, *et al.* 2002. *Br. J. Haematol.* 119:221.
 - Angata T, *et al.* 2006. *FASEB J.* 20:1964.
 - 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 α 2,3- and α 2,6-linked sialic acid as well as glycoporphin A, and is involved in cell adhesion.

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