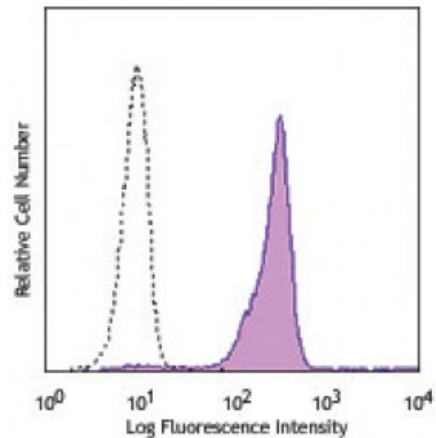


Purified anti-human Siglec-9

Catalog # / Size: 2357510 / 100 µg
Clone: K8
Isotype: Mouse IgG1, κ
Immunogen: Recombinant Siglec-9 fused to Fc region of human IgG
Reactivity: Human
Preparation: The antibody was purified by affinity chromatography.
Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration: 0.5



Human peripheral blood granulocytes were stained with purified Siglec-9 (clone K8) (filled histogram) or purified mouse IgG1, κ isotype control (open histogram), followed by anti-mouse IgG PE.

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: Additional reported applications (for the relevant formats) include: immunofluorescence staining², Western blotting², immunoprecipitation², and ELISA³.

Application References:
 1. Zhang J, *et al.* 2000. *J. Biol. Chem.* 275:22121.
 2. Avril T, *et al.* 2004. *J. Immunol.* 173:6841. (IF, IP, WB)
 3. Biedermann B, *et al.* 2007. *Leukemia Res.* 31:221. (ELISA)

Description: Siglecs are cell surface receptors belonging to the immunoglobulin superfamily that recognize sugar antigens. The extracellular domain of siglec-9 contains an IgV region, which binds sialic acid, followed by two IgC regions. Siglec 9 and siglec 6-8,10-12 are CD33 (siglec 3) like siglecs, which have two ITIMs in the cytoplasmic tails, suggesting their functional involvement in signal transduction. It is highly expressed on neutrophils and monocytes, and at lower levels on the subpopulations of T and B lymphocytes and NK cells. Siglec-9 plays a role in negative regulation of T cell activation, and it also affects neutrophil apoptosis.

Antigen References:
 1. Ikehara Y, *et al.* 2004. *J. Biol. Chem.* 279:43117.
 2. von Gunten S, *et al.* 2005. *Blood* 106:1423.