

APC/Fire™ 750 anti-human Siglec-9

Catalog # / Size: 2357565 / 25 tests
2357570 / 100 tests

Clone: K8

Isotype: Mouse IgG1, κ

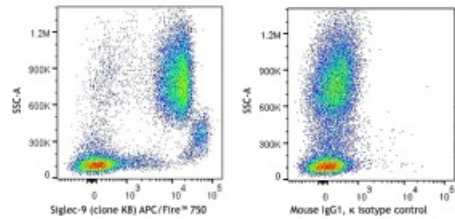
Immunogen: Recombinant Siglec-9 fused to Fc region of human IgG

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Fire™ 750 under optimal conditions.

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

Concentration: Lot-specific



Human peripheral blood lymphocytes, monocytes, and granulocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire™ 750 (left) or mouse IgG1, κ isotype control APC/Fire™ 750 (right).

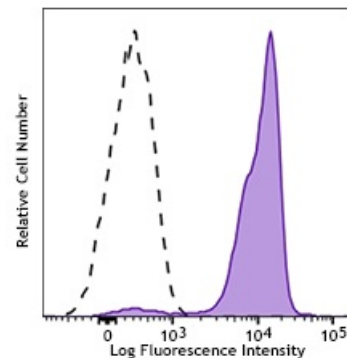
Applications:

Applications: Flow Cytometry

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 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.

* APC/Fire™ 750 has a maximum excitation of 650 nm and a maximum emission of 787 nm.

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



Human peripheral blood granulocytes were stained with True-Stain Monocyte Blocker™ (Cat. No. 426103) and Siglec-9 (clone K8) APC/Fire™ 750 (filled histogram) or mouse IgG1, κ isotype control APC/Fire™ 750 (open histogram).

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