

**PE anti-human Siglec-8**

**Catalog # / Size:** 2335520 / 100 tests  
2335515 / 25 tests

**Clone:** 7C9

**Isotype:** Mouse IgG1,  $\kappa$

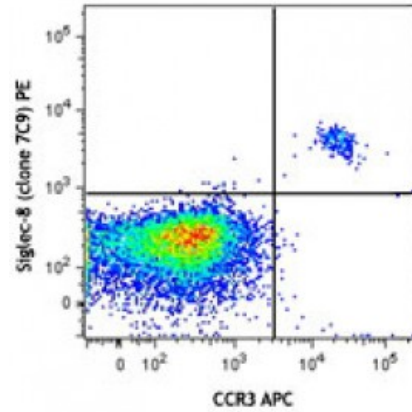
**Immunogen:** Recombinant Siglec-8 fused to human IgG Fc

**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).

**Concentration:** Lot-specific

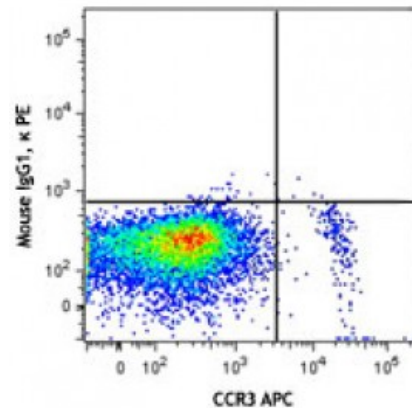


Human peripheral blood leukocytes were stained with CCR3 APC and Siglec-8 (clone 7C9) PE (top) or mouse IgG1,  $\kappa$  isotype control PE (bottom). Data shown was gated on granulocyte population.

**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 References:**
1. Floyd H, *et al.* 2000. *J. Biol. Chem.* 275:861.
  2. Kano G, *et al.* 2013. *J Allergy Clin Immunol.* 132:437. [PubMed](#)
  3. Wong TW, *et al.* 2013. *J Immunol Methods.* 387:130. [PubMed](#)
  4. Jenner W, *et al.* 2014. *PLoS One.* 9:89375. [PubMed](#)

**Description:** Siglec-8 is a lectin specific for 6'-sulfo-sLe<sup>x</sup> and a member of the Ig-superfamily. It is expressed almost exclusively in eosinophils; however, basophils and mast cells can express it to a lower degree. Siglec-8 is a 54 kD transmembranal protein; the extracellular domain has one V-set Ig-like domain and two C2-set domains. The cytoplasmic domain has two immunoreceptor tyrosine-based inhibitor motifs (ITIM) that recruit SH2-family phosphatases after tyrosine phosphorylation. There are reports that siglec-8 inhibits the release of histamine and prostaglandin D2 mediated by the IgEFcR. This molecule is also involved in the induction of apoptosis.

- Antigen References:**
1. Bochner BS, *et al.* 2009. *Clin. Exp. Allergy.* 39:317.
  2. Hudson SA, *et al.* 2009. *J. Pharmacol. Exp. Ther.* 330:608.

3. Nutku E, *et al.* 2005. *Biochem. Biophys. Res. Commun.* 336:918.