

DESCRIPTION

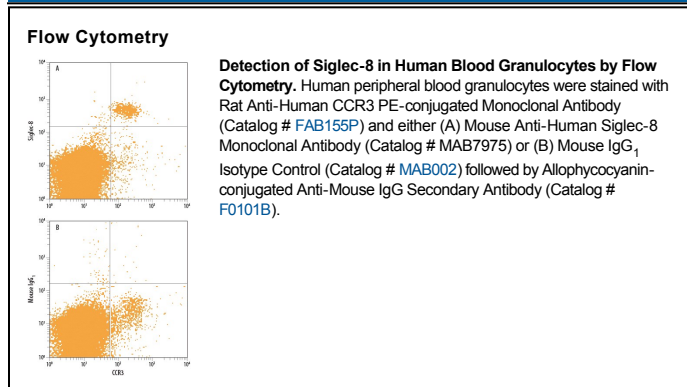
Species Reactivity	Human
Specificity	Detects human Siglec-8 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Siglec-7, -9, or -14 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 837535
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Siglec-8 Met17-Ala363 Accession # Q9NYZ4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Siglec-8 (Sialic acid-binding Ig-like lectin 8), formerly called SAF-2 (sialoadhesin family member 2) and designated CD329, is a 75 kDa member of the inhibitory CD33-related SIGLEC family within the Ig superfamily of proteins. An alternately spliced 48 kDa short form lacks most of the intracellular domain, while another isoform lacks the second of three extracellular Ig domains, representing amino acids (aa) 152-245 of the 499 aa long form. Siglec-8 is expressed exclusively on eosinophils, mast cells, and weakly on basophils, and is a marker for eosinophil terminal differentiation. It specifically recognizes 6' sulfated sialyl Lewis X carbohydrate structures. Engagement results in eosinophils apoptosis, or mast cell inhibition of degranulation. Eosinophil Siglec F is the mouse paralog of human Siglec-8, but shares <40% amino acid sequence identity.