

DESCRIPTION

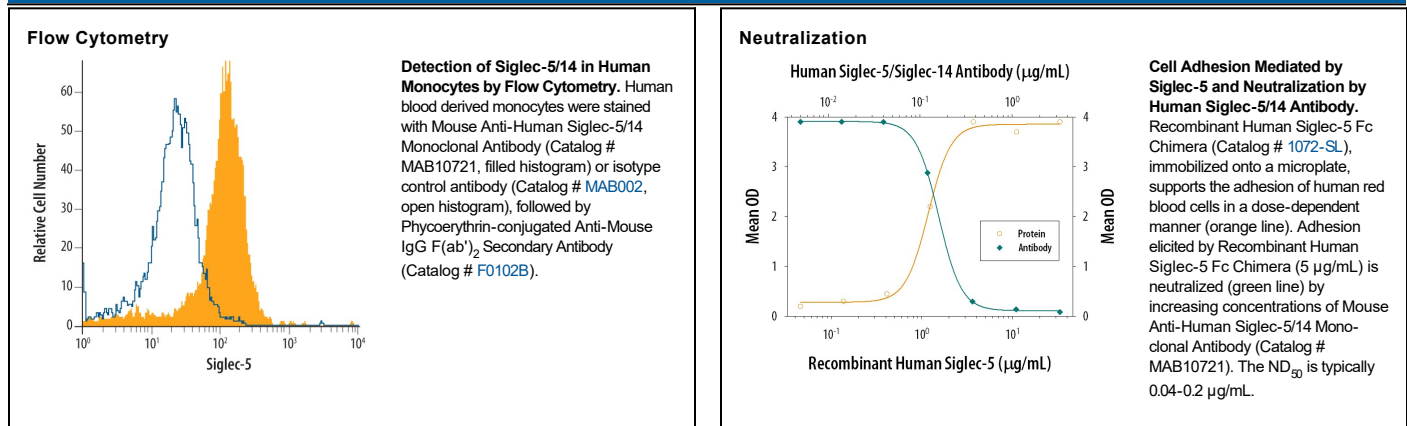
Species Reactivity	Human
Specificity	Detects human Siglec-5/Siglec-14 in ELISAs. In sandwich immunoassays, 100% cross-reactivity with recombinant human (rh) Siglec-14 is observed and no cross-reactivity with rhSiglec-3, rhSiglec-7, or rhSiglec-9 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 194128
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Siglec-5/Siglec-14 Lys18-Thr434 Accession # O15389
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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 either lyophilized or 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
Human Siglec-5 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Human Siglec-5/Siglec-14 Antibody (Catalog # MAB10721)
ELISA Detection	0.5-2.0 µg/mL	Human Siglec-5/Siglec-14 Biotinylated Antibody (Catalog # BAM10722)
Standard		Recombinant Human Siglec-5/CD170 Fc Chimera (Catalog # 1072-SL)
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize Siglec-5-mediated adhesion of human red blood cells. Kelm, S. <i>et al.</i> (1994) <i>Current Biology</i> 4:965. The Neutralization Dose (ND ₅₀) is typically 0.04-0.2 µg/mL in the presence of 5 µg/mL Recombinant Human Siglec-5 Fc Chimera.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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

Siglecs (sialic acid binding Ig-like lectins) are a subgroup of the immunoglobulin superfamily that interact with sialic acids in glycoproteins and glycolipids. Siglec-5 binds to alpha-2, 3- and alpha-2, 6-linked sialic acid equally. It occurs as a disulfide-linked dimer of approximately 140 kDa with the highest expression levels in hematopoietic tissues. Siglec-5 has an inhibitory motif within its cytoplasmic domain. Siglec-14 is an activating receptor that shares 99.5% aa sequence identity with Siglec-5 through the first two extracellular Ig domains and displays a similar glycan binding preference.