

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Siglec-G in ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Siglec-F or recombinant human Siglec-10 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 805903
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Siglec-G Glu20-Gln525 Accession # NP_766488
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	Mouse CD11b ⁺ splenocytes
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

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

Siglecs (sialic acid binding Ig-like lectins) are I-type lectins that belong to the immunoglobulin superfamily. They are characterized by a V-type Ig-like domain which mediates sialic acid binding, followed by varying numbers of C2-type Ig-like domains. Mouse Siglec-G, the apparent ortholog of human Siglec-10, is a 110-120 kDa, 688 amino acid (aa) type I transmembrane protein mainly expressed on mouse B1-type B cells. It controls B1 cell survival, selection, expansion and calcium signaling by negatively regulating B cell receptor signals. A potentially secreted 269 aa variant diverges after the first two Ig-like domains. Mouse Siglec-G shares approximately 63% aa sequence identity with human Siglec-10 within the extracellular domain.