

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Siglec-G in ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse Siglec-F or recombinant human Siglec-10 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 805903
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse Siglec-G Glu20-Gln525 Accession # NP_766488
<b>Conjugate</b>	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse CD11b <sup>+</sup> splenocytes

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**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.

**PRODUCT SPECIFIC NOTICES**

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