

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Siglec-1/CD169 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Siglec-1, -5, -6, -7, -8, -9, -10, -11, -14, recombinant mouse Siglec-2, -3, -E, -F, -G, or -H is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 645608
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Siglec-1/CD169 Thr20-Leu1639 (predicted) Accession # Q62230
<b>Formulation</b>	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.

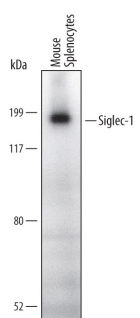
**APPLICATIONS**

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Flow Cytometry</b>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>CyTOF-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

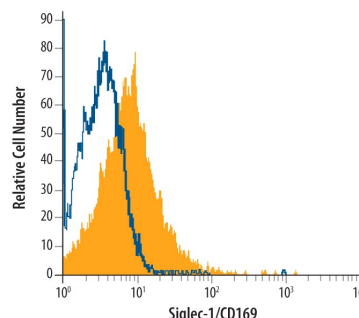
**DATA**

**Western Blot**



**Detection of Mouse Siglec-1/CD169 by Western Blot.** Western blot shows lysates of mouse splenocytes. PVDF Membrane was probed with 1 µg/mL of Mouse Siglec-1/CD169 Monoclonal Antibody (Catalog # MAB5610) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for Siglec-1/CD169 at approximately 180 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 1.

**Flow Cytometry**



**Detection of Siglec-1/CD169 in RAW 264.7 Mouse Cell Line by Flow Cytometry.** RAW 264.7 mouse monocyte/macrophage cell line was stained with Mouse Siglec-1/CD169 Monoclonal Antibody (Catalog # MAB5610, filled histogram) or isotype control antibody (Catalog # MAB006, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Siglec-1, also known as sialoadhesin or CD169, is a 175-185 kDa type I transmembrane glycoprotein belonging to the Siglec family of sialic acid specific I-type lectins within the immunoglobulin superfamily. Mouse Siglec-1 contains a 1619 amino acid (aa) extracellular domain (ECD) with one Ig-like V-set domain and 16 Ig-like C2-set domains. The ECD shares 73% and 83% aa sequence identity with human and rat Siglec-1, respectively. Alternate splicing generates two soluble isoforms containing either 16 or the first 3 Ig-like domains. Siglec-1 is expressed by some tissue macrophages, dendritic cells and circulating monocytes during certain infections. It binds sialylated molecules including MMR, MGL1/CD301a, MUC1, PSGL-1 and CD43.