

DESCRIPTION

Species Reactivity	Mouse
Specificity	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.
Source	Monoclonal Rat IgG _{2A} Clone # 645608
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Siglec-1/CD169 Thr20-Leu1639 (predicted) Accession # Q62230
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. *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.

Flow Cytometry Titration recommended for optimal concentration with starting range of 0.1-1 µg/1 million cells. Sample used for this experiment was RAW 264.7 mouse monocyte/macrophage cells stimulated with 1ug/ml LPS overnight.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage **Protect from light. Do not freeze.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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