Mouse/Rat SIGNR3/CD209d Antibody

Monoclonal Rat IgG_{2A} Clone # 728804

Catalog Number: MAB7220

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat SIGNR3/CD209d in Western blots. In Western blots, 100% cross-reactivity with recombinant mouse (rm) SIGNR1, 50% cross-reactivity with rmSIGNR7, and no cross-reactivity with rmSIGNR4 is observed. In direct ELISAs, no cross-reactivity with recombinant human (rh) DC-SIGN, rhDC-SIGNR, rmSIGNR1, rmSIGNR4, or rmSIGNR7 is observed.
Source	Monoclonal Rat IgG_{2A} Clone # 728804
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse SIGNR3/CD209d Glu82-Lys237 Accession # Q91ZW8
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 as a 0.2 μm filtered solution in PBS.

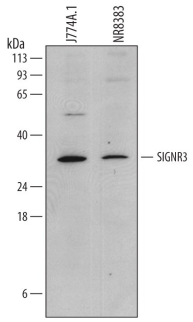
APPLICATIONS

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
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Mouse and Rat SIGNR3/CD209d by Western Blot. Western blot shows lysates of J774A.1 mouse reticulum cell sarcoma macrophage cell line and NR8383 rat alveolar macrophage cell line. PVDF membrane was probed with 1 µg/mL of Rat Anti-Mouse/Rat SIGNR3/CD209d Monoclonal Antibody (Catalog # MAB7220) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody. A specific band was detected for SIGNR3/CD209d at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.** ● 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

SIGNR3 (designated CD209d) is a 237 amino acid (aa), ~34 kDa type II transmembrane glycoprotein that is one of several mouse orthologs of human DC-SIGN (CD209). SIGNR3 is a calcium-binding C-type lectin that is expressed on myeloid mononuclear cells and a subpopulation of dendritic cells in the dermis, blood, and most lymphoid organs. Like human DC-SIGN, SIGNR3 recognizes high-mannose and fucose-terminated glycans and protects against pathogens such as Candida albicans and Mycobacterium tuberculosis. Within the region used as an immunogen, mouse and rat SIGNR3 share 91% aa sequence identity. A 207 aa isoform lacks aa 45-74, which includes the transmembrane domain.