

Mouse/Rat SIGNR3/CD209d Antibody

Monoclonal Rat IgG_{2A} Clone # 728804 Catalog Number: MAB7220

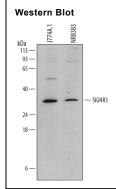
DESCRIPTION			
Species Reactivity	Mouse/Rat		
Specificity	Detects mouse and rat SIGNR3/CD209d in Western blots. In Western blots, 100% cross-reactivity with recombinant mouse (rm) SIGNR1, 50% cross-reactivity with rmSIGNR7, and no cross-reactivity with rmSIGNR4 is observed. In direct ELISAs, no cross-reactivity 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 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
Western Blot	1 μg/mL	See Below

DATA



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 S	STODAGE
IFNEFANATION AND	SIUNAGE

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.

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