

DESCRIPTION

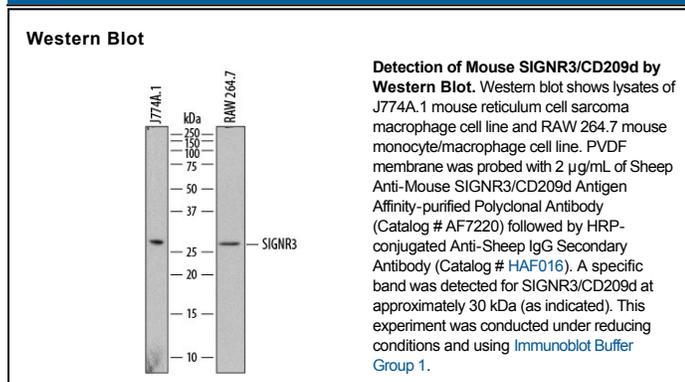
Species Reactivity	Mouse
Specificity	Detects mouse SIGNR3/CD209d in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) DC-SIGN R, rhDC-SIGN, recombinant mouse (rm) SIGN R1, rmSIGN R4, and rmSIGN R7 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
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	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 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. <ul style="list-style-type: none"> ● 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 (Specific Intercellular adhesion molecule-3-Grabbing Non-integrin Related gene 3; also CD209d and DC-SIGNR3) is a 30-34 kDa member of the C-type lectin family of proteins. It is found on macrophages, DC and monocytes, and appears to bind both high mannose and fucose moieties on the surface of extracellular pathogens. It is particularly important in clearing Mycobacterium tuberculosis. Upon ligation, SIGNR3 is internalized and presumably enters the endosomal system. Notably, and unlike in human, there are multiple SIGNs in mouse, and SIGNR3 most closely resembles the biology of human DC-SIGN. Mouse SIGNR3 is a 237 amino acid (aa) type II transmembrane glycoprotein. It contains a 54 aa N-terminal cytoplasmic region plus a 162 aa C-terminal extracellular domain (aa 76-237) that possesses a C-type lectin domain (aa 106-228). It is suggested that mouse SIGNR3 may oligomerize. There are two potential splice variants. One possesses an alternative start site 23 aa upstream of the standard site, while a second shows a deletion of aa 45-74. Over aa 82-237, mouse SIGNR3 shares 89% and 59% aa sequence identity with rat and human SIGNR3, respectively.