

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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

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.

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