

## DESCRIPTION

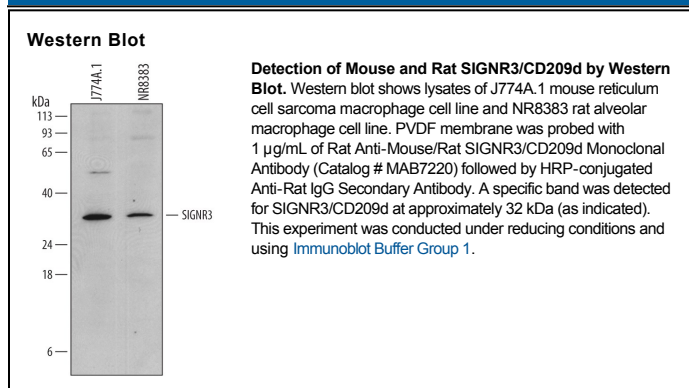
<b>Species Reactivity</b>	Mouse/Rat
<b>Specificity</b>	Detects mouse and rat SIGNR3/CD209d in Western blots. In Western blots, 100% cross-reactivity with recombinant mouse (rm) SIGNR1, 50% cross-reactivity with rmSIGNR7, and no cross-reactivity with rmSIGNR4 is observed. In direct ELISAs, no cross-reactivity with recombinant human (rh) DC-SIGN, rhDC-SIGNR, rmSIGNR1, rmSIGNR4, or rmSIGNR7 is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 728804
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse SIGNR3/CD209d Glu82-Lys237 Accession # Q91ZW8
<b>Formulation</b>	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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.