

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects mouse CD300g/Nepmucin in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human CD300g/Nepmucin is observed.                                                                                                       |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant mouse CD300g/Nepmucin<br>Leu19-Ile284<br>Accession # NP_001154183                                                                                                                                                           |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

Nepmucin (a not expressed in Peyer's Patch mucin; also CLM-9, CD300g and TREM4) is a member of the CD300L family of proteins. It is expressed on endothelium and serves multiple functions. It is known to form homotypic interactions between endothelial cells, bind lymphocytes via its Ig-like and mucin domains and serve as a transcellular transport vehicle for IgA and IgM. Mature mouse Nepmucin is a 397 amino acid (aa) type I transmembrane glycoprotein. Its extracellular region (aa 19-288) contains one V-type Ig-like domain (aa 19-124) plus an O-glycosylated mucin region (aa 136-276). There are at least three isoform variants. One is 60-75 kDa in size and shows an Ala substitution for aa 126-170, a second is 46-50 kDa in size and shows an Arg substitution for aa 170-254, while a third is 36 kDa in size and shows a SerTyr substitution for aa 134-256. Over aa 1-284, mouse Nepmucin shares 89% and 53% aa identity with rat and human Nepmucin, respectively.

#### PRODUCT SPECIFIC NOTICES

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