

Mouse CD300g/Nepmucin Biotinylated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: BAF5554

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CD300g/Nepmucin in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human CD300g/Nepmucin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse CD300g/Nepmucin Leu19-Ile284 Accession # NP_001154183
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 µg/mL	Recombinant Mouse CD300g/Nepmucin

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
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

Nepmucin (a not expressed in Peyer's Patch mucin; also CLM-9, CD300g and TREM4) is an 80-95 kDa 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 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.