

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD300g/Nepmucin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse CD300g/Nepmucin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD300g/Nepmucin Leu19-Leu249 Accession # Q6UXG3
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Nepmucin (A mucin not expressed in Peyer's Patches; also CD300g, CLM9, and TREM4) is a 75-95 kDa, O-glycosylated member of the CD300 family of molecules. It is expressed on capillary endothelium, and appears to serve multiple functions. Via a mucin domain, it binds lymphocyte L-selectin, contributing to cell migration. It also binds immunoglobulins A and M, perhaps mediating transendothelial transport. Mature human nepmucin is a 314 amino acid (aa) type I transmembrane glycoprotein. It contains one V-type Ig-like domain (aa 19-121), a mucin stalk (aa 137-237), and a cytoplasmic region (aa 269-332). There are at least two isoform variants of nepmucin. Each shows a deletion of aa 128-212, accompanied by either a 23 aa, or 12 aa substitution for aa 296-332. Over aa 19-249, human nepmucin shares 51% aa identity with mouse nepmucin.

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