

# **Human CD300g/Nepmucin Antibody**

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF5328

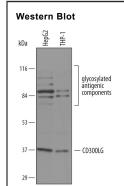
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human CD300g/Nepmucin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse CD300g/Nepmucin is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human CD300g/Nepmucin Leu19-Leu249 Accession # Q6UXG3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or 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
Western Blot	1 μg/mL	See Below

### DATA



# Detection of Human CD300g/Nepmucin by Western Blot.

Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and THP-1 human acute monocytic leukemia cell line. PVDF membrane was probed with 1 µg/mL of Sheep Anti-Human CD300g/Nepmucin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5328) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). Specific bands were detected for CD300g/Nepmucin at approximately 75-95 kDa and 37 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

### 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.	

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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 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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