

## DESCRIPTION

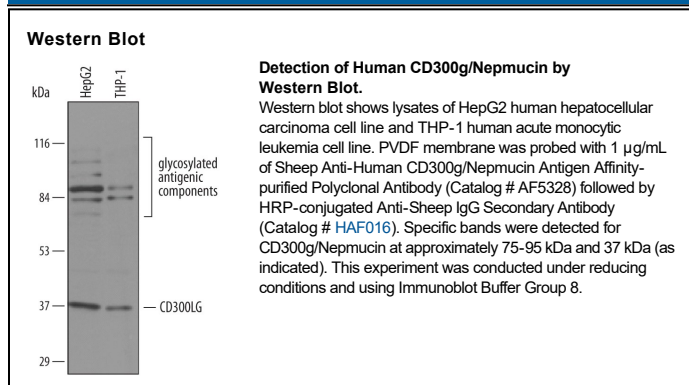
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human CD300g/Nepmucin in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant mouse CD300g/Nepmucin is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human CD300g/Nepmucin Leu19-Leu249 Accession # Q6UXG3
<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 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
<b>Western Blot</b>	1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<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

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.