

#### DESCRIPTION

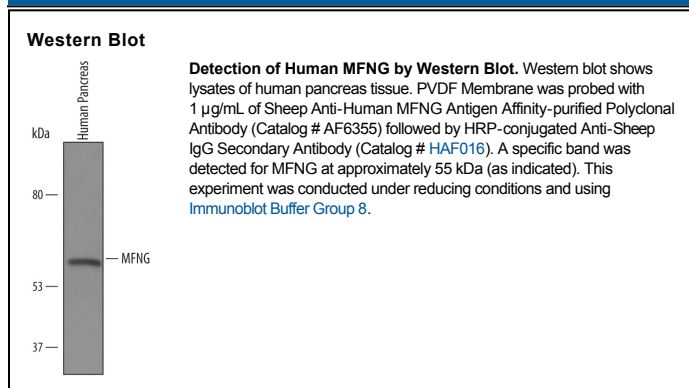
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human MFNG in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human MFNG Gly37-Arg321 Accession # O00587
<b>Formulation</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 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	See Below
<b>Immunoprecipitation</b>	25 µg/mL	Conditioned cell culture medium spiked with Recombinant Human MFNG, <a href="#">see our available Western blot detection antibodies</a> .

#### DATA



#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.2 mg/mL.
<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

MFNG (Manic fringe N-acetylglucosaminyltransferase; also O-fucosylpeptide 3-β-N-acetylglucosaminyltransferase) is a 52 - 55 kDa member of the glucosyltransferase 31 family. It is a Golgi membrane protein that transfers N-acetylglucosamine to an O-linked fucose residue on Notch. Activity on Notch increases Delta-1 induced signaling while suppressing Jagged-1 signaling. MFNG is found in fetal pancreatic endocrine progenitor cells and immature ventricular zone neurons. Human MFNG is a 321 amino acid (aa) type II transmembrane protein. It contains a short 7 aa cytoplasmic region, plus a 294 aa luminal domain (aa 28-321). There are two potential splice variants, one that shows a 15 aa substitution for aa 104-321, and another that contains a three aa substitution for aa 86-102. Over aa 37-321, human MFNG shares 85% aa identity with mouse MFNG.