

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human MFNG in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human MFNG Gly37-Arg321 Accession # O00587
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunoprecipitation	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

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.

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