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MFNG Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant MFNG.
Catalog # AT2853a

Product Information

Application	WB, E
Primary Accession	O00587
Other Accession	NM_002405
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B11
Calculated MW	36202

Additional Information

Gene ID	4242
Other Names	Beta-1, 3-N-acetylglucosaminyltransferase manic fringe, O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase, MFNG
Target/Specificity	MFNG (NP_002396, 214 a.a. ~ 291 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	MFNG Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

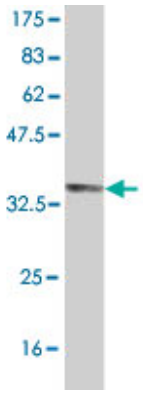
This gene is a member of the fringe gene family which also includes radical and lunatic fringe genes. They all encode evolutionarily conserved secreted proteins that act in the Notch receptor pathway to demarcate boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, fringe proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling.

References

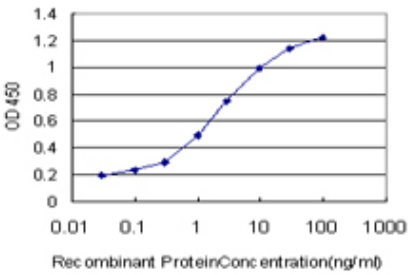
New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes

Immun, 2010 Apr. PMID 20237496.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.A genome annotation-driven approach to cloning the human ORFeome. Collins JE, et al. Genome Biol, 2004. PMID 15461802.Papillomavirus-mediated neoplastic progression is associated with reciprocal changes in JAGGED1 and manic fringe expression linked to notch activation. Veeraraghavalu K, et al. J Virol, 2004 Aug. PMID 15280477.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (34.32 KDa) .



Detection limit for recombinant GST tagged MFNG is approximately 0.1ng/ml as a capture antibody.