

POMGNT1 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant POMGNT1.

Catalog # AT3382a

Product Information

Application	WB, IHC
Primary Accession	Q8WZA1
Other Accession	NM_017739
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6C12
Calculated MW	75252

Additional Information

Gene ID	55624
Other Names	Protein O-linked-mannose beta-1, 2-N-acetylglucosaminyltransferase 1, POMGnT1, 241-, UDP-GlcNAc:alpha-D-mannoside beta-1, 2-N-acetylglucosaminyltransferase I2, GnT I2, POMGNT1, MGAT12
Target/Specificity	POMGNT1 (NP_060209, 221 a.a. ~ 318 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500
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	POMGNT1 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

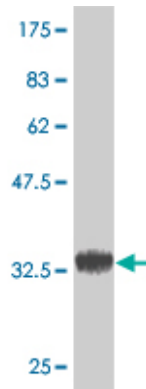
The protein encoded by this gene is a type II transmembrane protein that resides in the golgi. It participates in O-mannosyl glycosylation, and is specific for alpha linked terminal mannose. Mutations in this gene are associated with muscle-eye-brain (MEB) disease. Alternatively spliced transcript variants have been found for this gene.

References

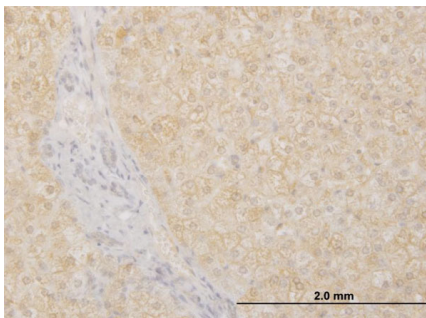
Congenital muscular dystrophies with defective glycosylation of dystroglycan: a population study. Mercuri E,

et al. Neurology, 2009 May 26. PMID 19299310. Novel POMGnT1 mutations define broader phenotypic spectrum of muscle-eye-brain disease. Hehr U, et al. Neurogenetics, 2007 Nov. PMID 17906881. Severe muscle-eye-brain disease is associated with a homozygous mutation in the POMGnT1 gene. Teber S, et al. Eur J Paediatr Neurol, 2008 Mar. PMID 17881266. Refining genotype phenotype correlations in muscular dystrophies with defective glycosylation of dystroglycan. Godfrey C, et al. Brain, 2007 Oct. PMID 17878207. Protein O-mannosyltransferase activities in lymphoblasts from patients with alpha-dystroglycanopathies. Manya H, et al. Neuromuscul Disord, 2008 Jan. PMID 17869517.

Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



Immunoperoxidase of monoclonal antibody to POMGNT1 on formalin-fixed paraffin-embedded human liver. [antibody concentration 3 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.