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MGAT4A Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant MGAT4A.
Catalog # AT2856a

Product Information

Application	WB, IHC, E
Primary Accession	Q9UM21
Other Accession	NM_012214
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4H4
Calculated MW	61544

Additional Information

Gene ID	11320
Other Names	Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase IVa, GlcNAc-T IVa, GnT-IVa, N-acetylglucosaminyltransferase IVa, UDP-N-acetylglucosamine: alpha-1, 3-D-mannoside beta-1, 4-N-acetylglucosaminyltransferase IVa, Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A soluble form, MGAT4A
Target/Specificity	MGAT4A (NP_036346, 436 a.a. ~ 535 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 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	MGAT4A Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

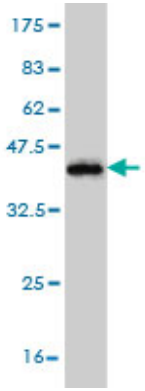
This gene encodes a key glycosyltransferase that regulates the formation of tri- and multiantennary branching structures in the Golgi apparatus. The encoded protein, in addition to the related isoenzyme B, catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc in a beta-1,4 linkage to the Man-alpha-1,3-Man-beta-1,4-GlcNAc arm of R-Man-alpha-1,6(GlcNAc-beta-1,2-Man-alpha-1,3)Man-beta-1,4-GlcNAc-beta-1,4-GlcNAc-beta-1-Asn. The encoded protein may play a role in regulating the availability of serum glycoproteins, oncogenesis, and

differentiation.

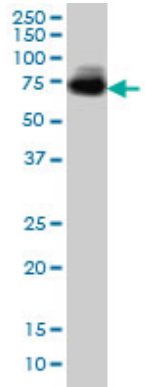
References

Genetic variation in a4GnT in relation to Helicobacter pylori serology and gastric cancer risk. Zheng Z, et al. Helicobacter, 2009 Oct. PMID 19751437.The transcription of MGAT4A glycosyl transferase is increased in white cells of peripheral blood of type 2 diabetes patients. L?pez-Ordu?a E, et al. BMC Genet, 2007 Oct 22. PMID 17953760.N-glycan alterations are associated with drug resistance in human hepatocellular carcinoma. Kudo T, et al. Mol Cancer, 2007 May 9. PMID 17488527.Kinetic properties and substrate specificities of two recombinant human N-acetylglucosaminyltransferase-IV isozymes. Oguri S, et al. Glycoconj J, 2006 Nov. PMID 17006639.Aberrant expression of N-acetylglucosaminyltransferase-IVa and IVb (GnT-IVa and b) in pancreatic cancer. Ide Y, et al. Biochem Biophys Res Commun, 2006 Mar 10. PMID 16434023.

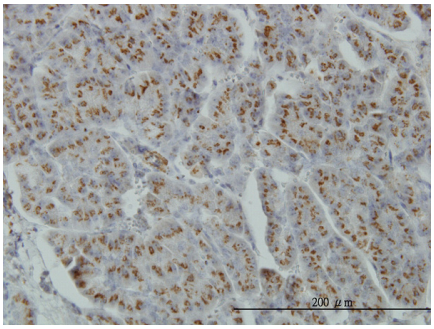
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

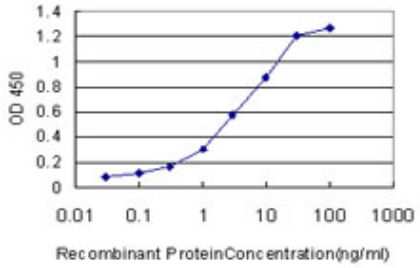


MGAT4A monoclonal antibody (M02), clone 4H4 Western Blot analysis of MGAT4A expression in Jurkat ((Cat # AT2856a)



Immunoperoxidase of monoclonal antibody to MGAT4A on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 0.2 ug/ml]

Detection limit for recombinant GST tagged MGAT4A is approximately 0.1ng/ml as a capture antibody.



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