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MGAT4B Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22002a

Product Information

Application	WB, E
Primary Accession	Q9UQ53
Reactivity	Human, Mouse
Predicted	Bovine, Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54699
Calculated MW	63198

Additional Information

Gene ID	11282
Other Names	Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B, 2.4.1.145, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase IVb, GlcNAc-T IVb, GnT-IVb, N-acetylglucosaminyltransferase IVb, UDP-N-acetylglucosamine: alpha-1, 3-D-mannoside beta-1, 4-N-acetylglucosaminyltransferase IVb, MGAT4B
Target/Specificity	This MGAT4B antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 32-62 amino acids from human MGAT4B.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MGAT4B Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MGAT4B (HGNC:7048)
Function	Glycosyltransferase that catalyzes the transfer of GlcNAc from UDP-GlcNAc

	to the GlcNAcbeta1-2Manalpha1-3 arm of the core structure of N-linked glycans through a beta1-4 linkage and participates in the production of tri- and tetra-antennary N-linked sugar chains (PubMed:10372966, PubMed:17006639). Prefers complex-type N-glycans over hybrid-types (PubMed:17006639). Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N-glycan biosynthesis (PubMed:17006639).
Cellular Location	Golgi apparatus membrane {ECO:0000250|UniProtKB:Q9D4R2}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:Q9D4R2}. Note=A processed soluble form also exists.
Tissue Location	Widely expressed. Strongly overexpressed in pancreatic cancer.

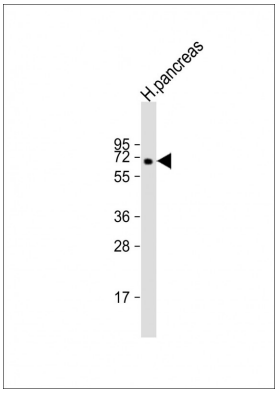
Background

Glycosyltransferase that participates in the transfer of N-acetylglucosamine (GlcNAc) to the core mannose residues of N- linked glycans. Catalyzes the formation of the GlcNAcbeta1-4 branch on the GlcNAcbeta1-2Manalpha1-3 arm of the core structure of N-linked glycans. Essential for the production of tri- and tetra-antennary N-linked sugar chains. Has lower affinities for donors or acceptors than MGAT4A, suggesting that, under physiological conditions, it is not the main contributor in N- glycan biosynthesis.

References

Yoshida A.,et al.Glycoconj. J. 15:1115-1123(1998).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Schmutz J.,et al.Nature 431:268-274(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Anti-MGAT4B Antibody (N-Term) at 1:2000 dilution + human pancreas lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 63 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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