

MGAT4A Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22052a

Product Information

Application	WB, E
Primary Accession	Q9UM21
Other Accession	Q5F407 , Q4R854 , Q5REP8
Reactivity	Human, Rat, Mouse
Predicted	Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54711
Calculated MW	61544

Additional Information

Gene ID	11320
Other Names	Alpha-1, 3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase A, 2.4.1.145, 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	This MGAT4A antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 70-102 amino acids from human MGAT4A.
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	MGAT4A Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MGAT4A (HGNC:7047)
Function	Glycosyltransferase that catalyze 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: 17006639). Involved in glucose transport by mediating SLC2A2/GLUT2 glycosylation, thereby controlling cell-surface expression of SLC2A2 in pancreatic beta cells (By similarity).
Cellular Location	[Alpha-1,3-mannosyl-glycoprotein 4-beta-N- acetylglucosaminyltransferase A]: Golgi apparatus membrane {ECO:0000250 UniProtKB:Q9D4R2}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:Q9D4R2}
Tissue Location	Expressed in pancreas, spleen, thymus, prostate, small intestine, peripheral blood leukocytes and lymph node. Strongly overexpressed in choriocarcinoma cancer cell lines. Down-regulated in pancreatic cancer.

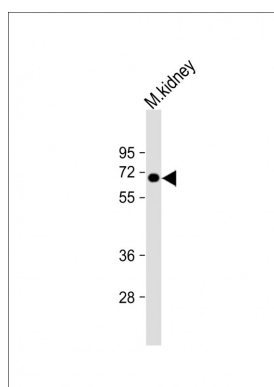
Background

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. Involved in glucose transport by mediating SLC2A2/GLUT2 glycosylation, thereby controlling cell-surface expression of SLC2A2 in pancreatic beta cells.

References

Yoshida A.,et al.Glycobiology 9:303-310(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 434:724-731(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Minowa M.T.,et al.Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases.

Images



Anti-MGAT4A Antibody (N-Term) at 1:2000 dilution + mouse kidney lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 62 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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