

**MGAT4A Antibody (N-Term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP22052a****Specification**

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**MGAT4A Antibody (N-Term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q9UM21</a>
Other Accession	<a href="#">Q5F407</a> , <a href="#">Q4R854</a> , <a href="#">Q5REP8</a>
Reactivity	Mouse
Predicted	Chicken, Monkey
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	61544
Antigen Region	70-102

**MGAT4A Antibody (N-Term) - 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.

**MGAT4A Antibody (N-Term) - Protein Information**

**Name** MGAT4A ([HGNC:7047](#))

**Function** Glycosyltransferase that catalyze the transfer of GlcNAc from UDP-GlcNAc to the GlcNAc $\beta$ 1-2Man $\alpha$ 1-3 arm of the core structure of N-linked glycans through a  $\beta$ 1-4 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**

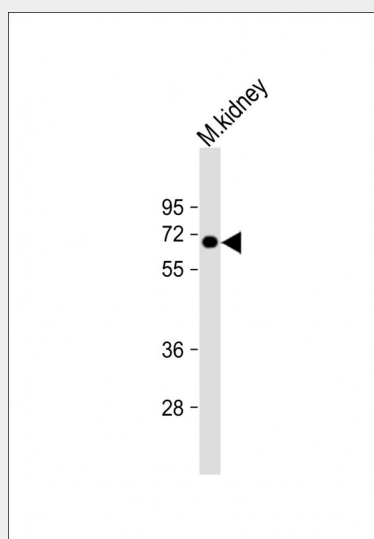
Expressed in pancreas, spleen, thymus, prostate, small intestine, peripheral blood leukocytes and lymph node. Strongly overexpressed in choriocarcinoma cancer cell lines. Down-regulated in pancreatic cancer.

**MGAT4A Antibody (N-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MGAT4A Antibody (N-Term) - Images**



Anti-MGAT4A Antibody (N-Term) at 1:2000 dilution + mouse kidney lysate Lysates/proteins at 20  $\mu$ g 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.

**MGAT4A Antibody (N-Term) - 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.

**MGAT4A Antibody (N-Term) - 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.