

MGAT5B Rabbit pAb

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Catalog # AP57305

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q3V5L5
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89535
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human MGAT5B
Epitope Specificity	101-200/792
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Golgi apparatus membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The MGAT5B gene encodes a beta-1,6-N-acetylglucosaminyltransferase (EC 2.4.1.155) that functions in the synthesis of complex cell surface N-glycans (Kaneko et al., 2003 [PubMed 14623122]).[supplied by OMIM, Nov 2008]

Additional Information

Gene ID	146664
Other Names	Alpha-1, 6-mannosylglycoprotein 6-beta-N-acetylglucosaminyltransferase B, 2.4.1.-, 2.4.1.155, Alpha-mannoside beta-1, 6-N-acetylglucosaminyltransferase B, GlcNAc-T Vb, GNT-Vb, hGnTVb, Mannoside acetylglucosaminyltransferase 5B, N-acetylglucosaminyl-transferase Vb, N-acetylglucosaminyltransferase IX, GNT-IX, MGAT5B, KIAA2008
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

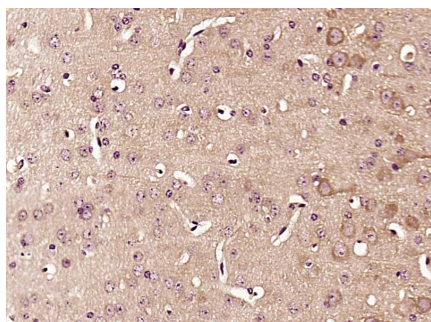
Name	MGAT5B
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Synonyms	KIAA2008
Function	Glycosyltransferase that acts on alpha-linked mannose of N- glycans and O-mannosyl glycans. Catalyzes the transfer of N- acetylglucosamine (GlcNAc) to the beta 1-6 linkage of the mannose residue of GlcNAc-beta1,2-Man-alpha on both the alpha1,3- and alpha1,6- linked mannose arms in the core structure of N-glycan. Also acts on the GlcNAc-beta1,2-Man-alpha1-Ser/Thr moiety, forming a 2,6-branched structure in brain O-mannosyl glycan. Plays an active role in modulating integrin and laminin-dependent adhesion and migration of neuronal cells via its activity in the O-mannosyl glycan pathway.
Cellular Location	Golgi apparatus membrane {ECO:0000250 UniProtKB:Q765H6}; Single-pass type II membrane protein {ECO:0000250 UniProtKB:Q765H6}
Tissue Location	Predominantly expressed in brain. Expressed in all areas of the adult and fetal brain. Also expressed at much lower levels in testis, spleen and thymus.

Background

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Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (MGAT5B) Polyclonal Antibody, Unconjugated (AP57305) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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