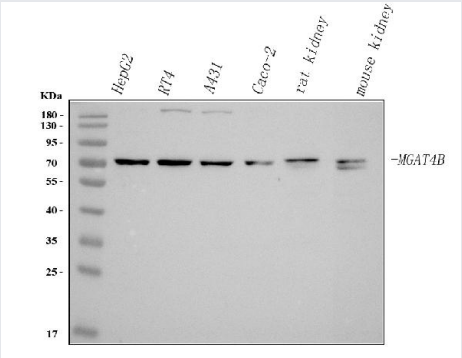
MGAT4B Antibody – Rabbit Polyclonal

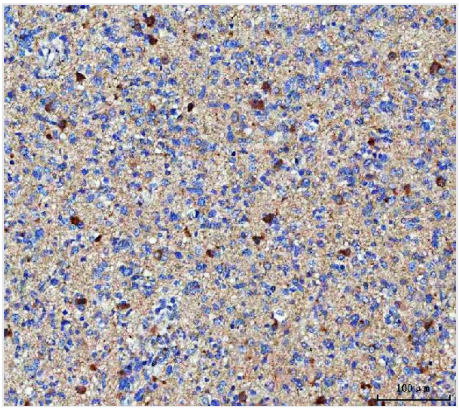
PRODUCT OVERVIEW

Product Name	MGAT4B, Polyclonal Antibody
Full Product Name	Anti-MGAT4B Antibody Picoband
Product Gene Name	anti-MGAT4B antibody
Product Synonym Names	Protein NDRG3; pre T cell antigen receptor alpha; Pre T-cell antigen receptor alpha; pT-alpha; pTa; pT-alpha-TCR; PTCRA
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	63,198 Da
OMIM	604561
3D Structure	ModBase 3D Structure for Q9UQ53
Immunogen	E coli-derived human MGAT4B recombinant protein (Position: Q31-D548).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	The pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) regulates early T-cell development.
Product Categories/Family for anti-MGAT4B antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-MGAT4B antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-MGAT4B antibody	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-MGAT4B antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product References and Citations for anti-MGAT4B antibody	1. Yoshida, A., Minowa, M. T., Takamatsu, S., Hara, T., Ikenaga, H., Takeuchi, M. A novel second isoenzyme of the human UDP-N-acetylglucosamine:alpha-1,3-D-mannoside beta-1,4-N-acetylglucosaminyltransferase family: cDNA cloning, expression, and chromosomal assignment. Glycoconj. J. 15: 1115-1123, 1998.
Other Notes	Small volumes of anti-MGAT4B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MGAT4B purchase	MBS1759110 is an antibody targeting MGAT4B. Also known as Anti-MGAT4B Antibody Picoband. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-MGAT4B antibody
Figure 1. Western blot analysis of MGAT4B using anti-MGAT4B antibody (MBS1759110).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates,Lane 2: human RT4 whole cell lysates,Lane 3: human A431 whole cell lysates,Lane 4: human Caco-2 whole cell lysates,Lane 5: rat kidney tissue lysates,Lane 6: mouse kidney tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MGAT4B antigen affinity purified polyclonal antibody (#MBS1759110) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for MGAT4B at approximately 70 kDa. The expected band size for MGAT4B is at 63 kDa.



Immunohistochemistry (IHC) of anti-MGAT4B antibody
Figure 2. IHC analysis of MGAT4B using anti-MGAT4B antibody (MBS1759110).MGAT4B was detected in a paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MGAT4B Antibody (MBS1759110) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (#MBS176453) with DAB as the chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MGAT4B. It may not necessarily be applicable to this product.

NCBI GI #	7710152
NCBI GeneID	11282
NCBI Accession #	NP_055090.1
UniProt Primary Accession #	Q9UQ53
UniProt Secondary Accession #	Q86TF1; Q96GH4; Q9NSK6; A8MPR0
UniProt Related Accession #	Q9UQ53
GenBank Nucleotide #	NM_014275.4
NCBI Official Full Name	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B isoform 1
NCBI Official Synonym Full Names	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B
NCBI Official Symbol	MGAT4B
NCBI Official Synonym Symbols	GNT-IV; GNT-IVB
UniProt Protein Name	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B

UniProt Synonym Protein Names	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
Protein Family	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase
UniProt Gene Name	MGAT4B
UniProt Synonym Gene Names	UNQ906/PRO1927; GlcNAc-T IVb; GnT-IVb; N-acetylglucosaminyltransferase IVb
UniProt Entry Name	MGT4B_HUMAN
NCBI Protein Information	alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B; glcNAc-T IVb; N-acetylglucosaminyltransferase IVb; alpha-1,3-mannosyl-glycoprotein beta-1,4-N-acetylglucosaminyltransferase; N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosam
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