

Rabbit MGAT4B Polyclonal Antibody | anti-MGAT4B antibody

Anti-MGAT4B Antibody Picoband

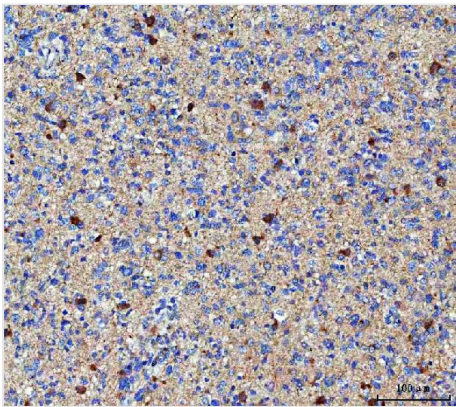
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127648	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

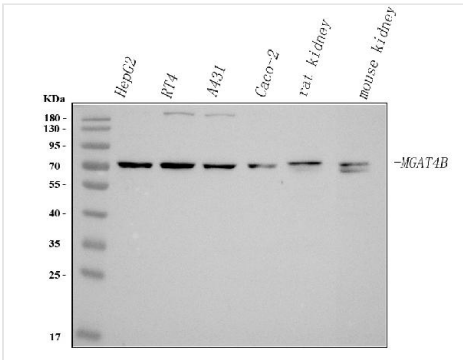
MGAT4B; Polyclonal Antibody; Anti-MGAT4B Antibody Picoband; Protein NDRG3; pre T cell antigen receptor alpha; Pre T-cell antigen receptor alpha; pT-alpha; pTa; pT-alpha-TCR; PTCRA; anti-MGAT4B antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
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.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MGAT4B antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
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.
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.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of MGAT4B using anti-MGAT4B antibody (AAA127648).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 (AAA127648) 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 with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of MGAT4B using anti-MGAT4B antibody (AAA127648).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 (#AAA127648) 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 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.

ADDITIONAL INFORMATION

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 Categories/Family for anti-MGAT4B antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	7710152
NCBI GeneID	11282
NCBI Accession #	NP_055090.1
NCBI GenBank Nucleotide #	NM_014275.4
UniProt Accession #	Q9UQ53; Q86TF1; Q96GH4; Q9NSK6; A8MPR0
Molecular Weight	63,198 Da
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

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
UniProt Protein Name	Alpha-1,3-mannosyl-glycoprotein 4-beta-N-acetylglucosaminyltransferase B
UniProt Gene Name	MGAT4B
UniProt Synonym Gene Names	UNQ906/PRO1927; GlcNAc-T IVb; GnT-IVb; N-acetylglucosaminyltransferase IVb
UniProt Entry Name	MGT4B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/polyclonal/mgat4b-antibody-immunohistochemistry-western-blot-elisa/127648>