

Rabbit MGAT1 Polyclonal Antibody | anti-MGAT1 antibody

MGAT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328684	Rabbit	Human, Mouse, RatPredicted: Pig, Zebrafish, Bovine, Horse, Sheep, Dog	Western Blot

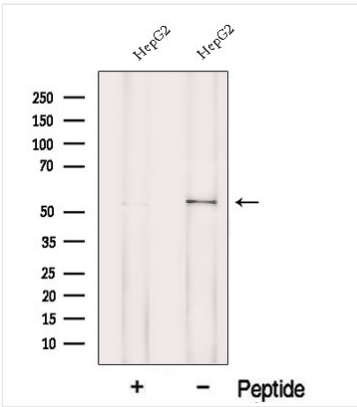
PRODUCT SYNONYMS

MGAT1; Polyclonal Antibody; MGAT1 Antibody; anti-MGAT1 antibody

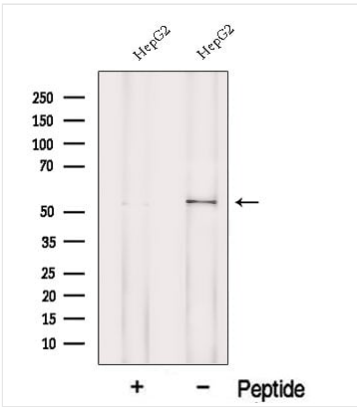
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Zebrafish, Bovine, Horse, Sheep, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	MGAT1 Antibody detects endogenous levels of MGAT1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	748
Applicable Applications for anti-MGAT1 antibody	WB (Western Blot)
Immunogen	A synthesized peptide derived from human MGAT1.
Tissue Specificity	Constitutively expressed. An additional weaker band is also detected in spinal cord, lymph node, and trachea. Expressed especially in astrocytes. Also expressed in immature and mature neurons.
Fragment	Fab Fragment
Conjugate	Unconjugated
Subcellular Location	Golgi Apparatus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells, using MGAT1 Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from Myeloma cells, using MGAT1 Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-MGAT1 antibody	Description: Participates in O-mannosyl glycosylation by catalyzing the addition of N-acetylglucosamine to O-linked mannose on glycoproteins (PubMed:11709191, PubMed:27493216). Catalyzes the synthesis of the GlcNAc(beta1-2)Man(alpha1-)-O-Ser/Thr moiety on alpha-dystroglycan and other O-mannosylated proteins, providing the necessary basis for the addition of further carbohydrate moieties (PubMed:11709191, PubMed:27493216). Is specific for alpha linked terminal mannose and does not have MGAT3, MGAT4, MGAT5, MGAT7 or MGAT8 activity.
	Subunit Structure: Interacts with DAG1 (via O-linked mannose moiety) (PubMed:27493216). Interacts (via transmembrane domain) with FKTN; the interaction is direct and is required for normal location in Golgi membranes (PubMed:17034757).
	Similarity: Amino acid residues between 299-311 are important for both protein expression and enzymatic activity. The minimal catalytic domain is located between positions 299-651. Single amino acid substitutions in the stem domain from MEB patients abolished the activity of the membrane-bound form but not the soluble form. This suggests that the stem domain of the soluble form is unnecessary for activity, but that some amino acids play a crucial role in the membrane-bound form. The stem domain mediates specific interaction with beta-linked N-acetylglucosamine moieties of O-glycosylated proteins. It also interacts with its product, N-acetyl-beta-D-glucosaminyl-(1->2)-O-alpha-D-mannosylprotein. Belongs to the glycosyltransferase 13 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	344313163
NCBI GeneID	55624
NCBI Accession #	NP_001230695
NCBI GenBank Nucleotide #	NP_001230695.1
UniProt Accession #	Q8WZA1
Molecular Weight	Observed: 55 kDa Predicted: 76 kDa
NCBI Official Full Name	protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1 isoform 2
NCBI Official Synonym Full Names	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-)
NCBI Official Symbol	POMGNT1
NCBI Official Synonym Symbols	MEB; RP76; GNT1.2; LGMD2O; GnT I.2; LGMDR15; MGAT1.2; gnT-I.2
NCBI Protein Information	protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1

UniProt Protein Name	Protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1
UniProt Gene Name	POMGNT1
UniProt Synonym Gene Names	MGAT1.2; POMGnT1; GnT I.2
UniProt Entry Name	PMGT1_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://www.aaabiotech.com/polyclonal/mgat1-antibody-western-blot-elisa/328684>