

**MGAT2 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2407b**

**Specification**

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**MGAT2 Antibody (C-term) - Product Information**

Application	WB, FC,E
Primary Accession	<a href="#">Q10469</a>
Other Accession	<a href="#">Q09326</a> , <a href="#">O19071</a> , <a href="#">Q921V5</a> , <a href="#">NP_002399</a>
Reactivity	Human
Predicted	Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	51550
Antigen Region	409-439

**MGAT2 Antibody (C-term) - Additional Information**

**Gene ID** 4247

**Other Names**

Alpha-1, 6-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase, Beta-1, 2-N-acetylglucosaminyltransferase II, GlcNAc-T II, GNT-II, Mannoside acetylglucosaminyltransferase 2, N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase II, MGAT2

**Target/Specificity**

This MGAT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 409-439 amino acids from the C-terminal region of human MGAT2.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**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**

MGAT2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MGAT2 Antibody (C-term) - Protein Information**

**Name** MGAT2

**Function** Plays an essential role in protein N-glycosylation. Catalyzes the transfer of N-acetylglucosamine (GlcNAc) onto the free terminal mannose moiety in the core structure of the nascent N-linked glycan chain, giving rise to the second branch in complex glycans.

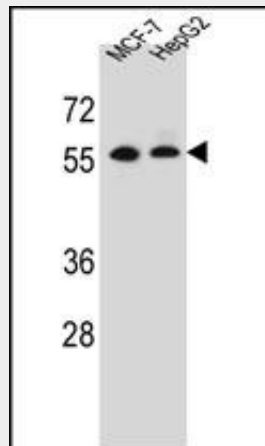
**Cellular Location**

Golgi apparatus membrane; Single-pass type II membrane protein

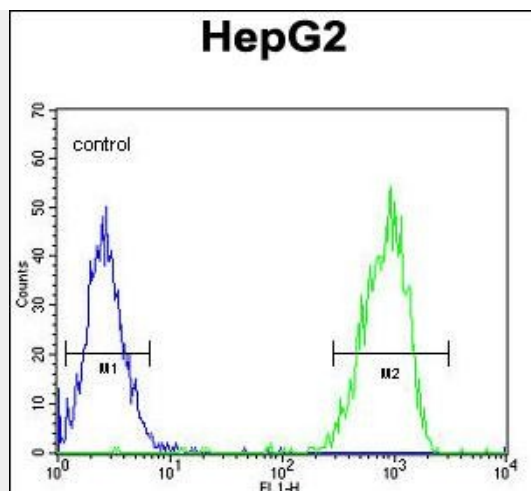
**MGAT2 Antibody (C-term) - Protocols**

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](#)

**MGAT2 Antibody (C-term) - Images**

MGAT2 Antibody (P423) (Cat. #AP2407b) western blot analysis in MCF-7/HepG2 cell line lysates (35ug/lane). This demonstrates the MGAT2 antibody detected the MGAT2 protein (arrow).



MGAT2 Antibody (C-term) (Cat. #AP2407b) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **MGAT2 Antibody (C-term) - Background**

MGAT2 (UDP-N-acetylglucosamine:alpha-6-D-mannoside-beta-1, 2-N-acetylglucosaminyltransferase II) is a Golgi enzyme catalyzing an essential step in the conversion of oligomannose to complex N-glycans. The enzyme has the typical glycosyltransferase domains: a short N-terminal cytoplasmic domain, a hydrophobic non-cleavable signal-anchor domain, and a C-terminal catalytic domain. Mutations in MGAT2 may lead to carbohydrate-deficient glycoprotein syndrome, type II.

#### **MGAT2 Antibody (C-term) - References**

Yen, C.L., et al., J. Biol. Chem. 278(20):18532-18537 (2003). Chen, S.H., et al., Glycoconj. J. 15(3):301-308 (1998). Tan, J., et al., Am. J. Hum. Genet. 59(4):810-817 (1996). Tan, J., et al., Eur. J. Biochem. 231(2):317-328 (1995). D'Agostaro, G.A., et al., J. Biol. Chem. 270(25):15211-15221 (1995).