

**MGAT1 Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP2406b**

**Specification**

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**MGAT1 Antibody (C-term) - Product Information**

Application	<b>WB, IHC-P,E</b>
Primary Accession	<a href="#">P26572</a>
Other Accession	<a href="#">NP_002397</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Isotype	<b>Rabbit IgG</b>
Calculated MW	<b>50878</b>

**MGAT1 Antibody (C-term) - Additional Information**

**Gene ID** 4245

**Other Names**

Alpha-1, 3-mannosyl-glycoprotein 2-beta-N-acetylglucosaminyltransferase,  
N-glycosyl-oligosaccharide-glycoprotein N-acetylglucosaminyltransferase I, GNT-I, GlcNAc-T I,  
MGAT1, GGNT1, GLCT1, GLYT1, MGAT

**Target/Specificity**

This MGAT1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human MGAT1.

**Dilution**

WB~~1:1000  
IHC-P~~1:50~100

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**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**

MGAT1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**MGAT1 Antibody (C-term) - Protein Information**

**Name** MGAT1

**Synonyms** GGNT1, GLCT1, GLYT1, MGAT

**Function** Initiates complex N-linked carbohydrate formation. Essential for the conversion of high-mannose to hybrid and complex N-glycans.

**Cellular Location**

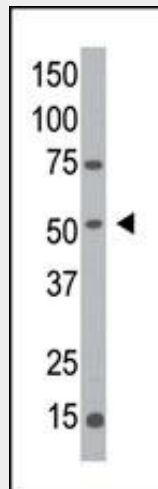
Golgi apparatus membrane; Single-pass type II membrane protein. Cytoplasm, perinuclear region. Note=Co-localizes with BRI3 isoform 1 at the perinuclear region.

**MGAT1 Antibody (C-term) - Protocols**

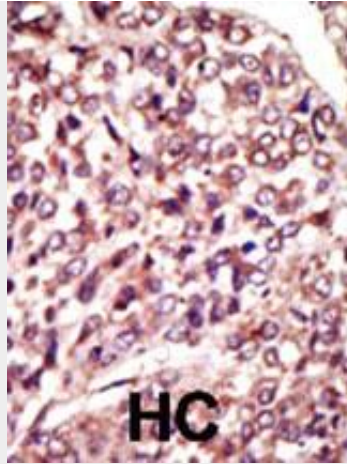
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**MGAT1 Antibody (C-term) - Images**



Western blot analysis of anti-hMGAT1-R426 Pab (Cat. #AP2406b) in Y79 cell line lysate. hMGAT1-R426 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **MGAT1 Antibody (C-term) - Background**

There are believed to be over 100 different glycosyltransferases involved in the synthesis of protein-bound and lipid-bound oligosaccharides. MGAT1 (UDP-N-acetylglucosamine:alpha-3-D-mannoside beta-1,2-N-acetylglucosaminyltransferase I) is a medial-Golgi enzyme essential for the synthesis of hybrid and complex N-glycans. The protein, encoded by a single exon, shows typical features of a type II transmembrane protein. The protein is believed to be essential for normal embryogenesis.

#### **MGAT1 Antibody (C-term) - References**

- Tan, J., et al., *Eur. J. Biochem.* 231(2):317-328 (1995).
- Kumar, R., et al., *Glycobiology* 2(4):383-393 (1992).
- Hull, E., et al., *Biochem. Biophys. Res. Commun.* 176(2):608-615 (1991).
- Kumar, R., et al., *Proc. Natl. Acad. Sci. U.S.A.* 87(24):9948-9952 (1990).
- Yip, B., et al., *Biochem. J.* 321 (Pt 2), 465-474 (1997).