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MGAT1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2406b

Specification

MGAT1 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P26572
Other Accession	NP_002397
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**50878**

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.

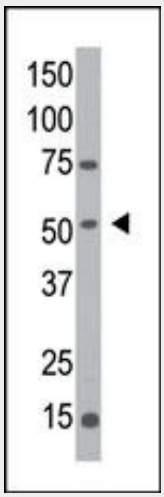
Cellular Location
Golgi apparatus membrane; Single-pass type II membrane protein. Cytoplasm, perinuclear region. Note=Co-localizes with BRI3 isoform 1 at the perinuclear region.

MGAT1 Antibody (C-term) - Protocols

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

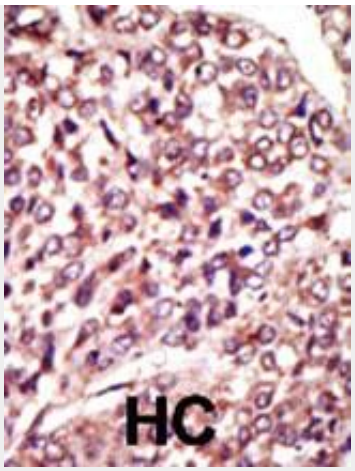
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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.

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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

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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).