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B3GAT1 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM2042a

Specification

B3GAT1 Antibody - Product Information

Application	**WB,E**
Primary Accession	Q9P2W7
Other Accession	O35789, Q9CW73, NP_061114.2
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgM**
Calculated MW	**38256**
Antigen Region	**132-160**

B3GAT1 Antibody - Additional Information

Gene ID 27087

Other Names
Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 1, Beta-1, 3-glucuronyltransferase 1, Glucuronosyltransferase P, GlcAT-P, UDP-GlcUA:glycoprotein beta-1, 3-glucuronyltransferase, GlcUAT-P, B3GAT1, GLCATP

Target/Specificity
This B3GAT1 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 132-160 amino acids from human B3GAT1.

Dilution
WB~~1:500~1000

Format
Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin 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
B3GAT1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

B3GAT1 Antibody - Protein Information

Name B3GAT1 (HGNC:921)

Synonyms GLCATP

Function Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on glycoproteins. Can also play a role in glycosaminoglycan biosynthesis. Substrates include asialo-orosomucoid (ASOR), asialo- fetuin, and asialo-neural cell adhesion molecule. Requires sphingomyelin for activity: stearoyl-sphingomyelin was the most effective, followed by palmitoyl-sphingomyelin and lignoceroyl- sphingomyelin. Activity was demonstrated only for sphingomyelin with a saturated fatty acid and not for that with an unsaturated fatty acid, regardless of the length of the acyl group.

Cellular Location
[Isoform 1]: Golgi apparatus membrane {ECO:0000250|UniProtKB:O35789}; Single-pass type II membrane protein {ECO:0000250|UniProtKB:O35789}. Secreted {ECO:0000250|UniProtKB:O35789}

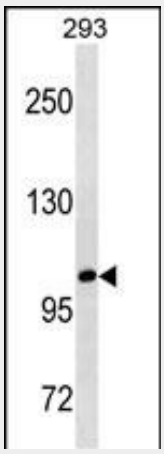
Tissue Location
Mainly expressed in the brain.

B3GAT1 Antibody - 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

B3GAT1 Antibody - Images



B3GAT1 Antibody (Cat. #AM2042a) western blot analysis in 293 cell line lysates (35µg/lane).This demonstrates the B3GAT1 antibody detected the B3GAT1 protein (arrow).

B3GAT1 Antibody - Background

The protein encoded by this gene is a member of the glucuronyltransferase gene family. These enzymes exhibit strict

acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product functions as the key enzyme in a glucuronyl transfer reaction during the biosynthesis of the carbohydrate epitope HNK-1 (human natural killer-1, also known as CD57 and LEU7). Alternate transcriptional splice variants have been characterized.

B3GAT1 Antibody - References

Akagi, J., et al. Int. J. Clin. Oncol. 15(2):145-152(2010)
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Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
Chong, L.K., et al. Eur. J. Immunol. 38(4):995-1000(2008)
Casado, J.G., et al. Tumour Biol. 29(5):304-310(2008)