

B3GAT1 Antibody
Mouse Monoclonal Antibody (Mab)
Catalog # AM2042a**Specification**

B3GAT1 Antibody - Product Information

Application	WB,E
Primary Accession	O9P2W7
Other Accession	O35789 , O9CW73 , 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

E~~Use at an assay dependent concentration.

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: stearyl-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

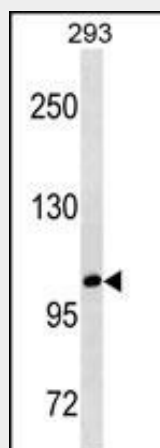
Mainly expressed in the brain.

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 Cytometry](#)
- [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)
Petrovas, C., et al. J. Immunol. 183(2):1120-1132(2009)
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)