

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

**Specification**

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**B3GAT1 Antibody - Product Information**

Application	WB,E
Primary Accession	<a href="#">O9P2W7</a>
Other Accession	<a href="#">O35789</a> , <a href="#">O9CW73</a> , <a href="#">NP_061114.2</a>
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: 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

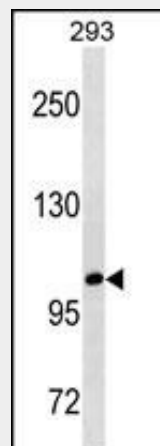
Mainly expressed in the brain.

## 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)