

Mouse Monoclonal Antibody to B3GAT1
Purified Mouse Monoclonal Antibody
Catalog # AO2391a**Specification**

Mouse Monoclonal Antibody to B3GAT1 - Product Information

Application	E, WB, FC
Primary Accession	O9P2W7
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	38.2kDa KDa

Description

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.;

Immunogen

Purified recombinant fragment of human B3GAT1 (AA: 193-334) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

Application Note

ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Mouse Monoclonal Antibody to B3GAT1 - Additional Information

Gene ID 27087

Other Names

NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Monoclonal Antibody to B3GAT1 is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Monoclonal Antibody to B3GAT1 - 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

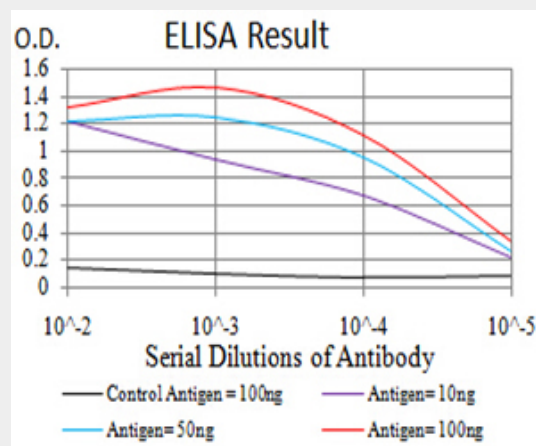
Mainly expressed in the brain.

Mouse Monoclonal Antibody to B3GAT1 - Protocols

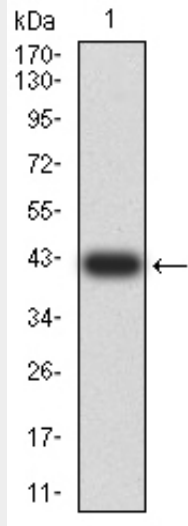
Provided below are standard protocols that you may find useful for product applications.

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

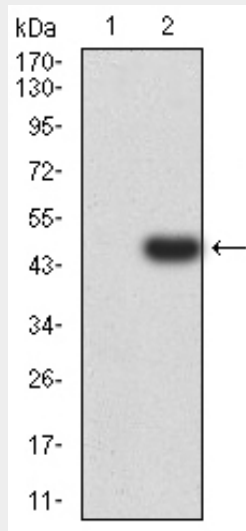
Mouse Monoclonal Antibody to B3GAT1 - Images



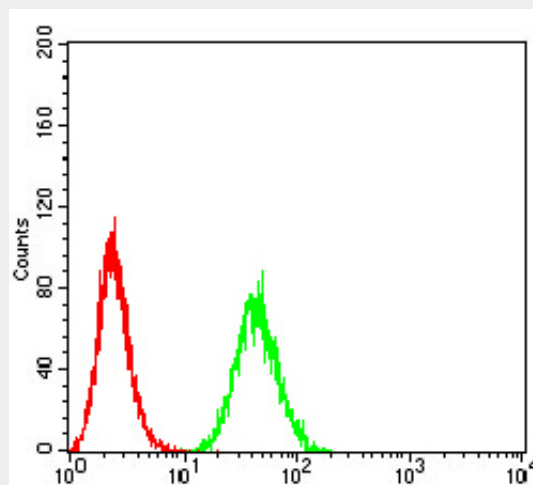
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using B3GAT1 mAb against human B3GAT1 (AA: 193-334) recombinant protein. (Expected MW is 41.5 kDa)



Western blot analysis using B3GAT1 mAb against HEK293 (1) and B3GAT1 (AA: 193-334)-hlgGfc transfected HEK293 (2) cell lysate.



Flow cytometric analysis of HeLa cells using B3GAT1 mouse mAb (green) and negative control

(red).

Mouse Monoclonal Antibody to B3GAT1 - References

1. Biomed Res Int. 2014;2014:356427. ; 2. PLoS One. 2013;8(2):e52144.;