10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to B3GAT1

Purified Mouse Monoclonal Antibody
Catalog # AO2391a

Product Information

Application	WB, FC, E
Primary Accession	Q9P2W7
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	3B8C12
Isotype	Mouse IgG1
Calculated MW	38256
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

Additional Information

Gene ID	27087
Other Names	NK1; CD57; HNK1; LEU7; NK-1; GLCATP; GLCUATP
Dilution	WB~~1:1000 FC~~1:10~50 E~~N/A
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.

Protein Information

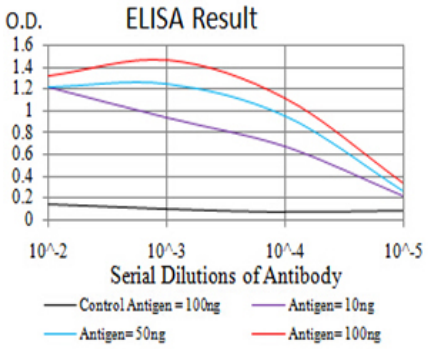
Name	B3GAT1 (HGNC:921)

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.

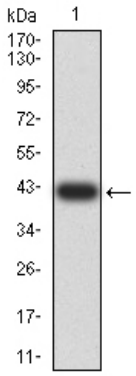
References

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

Images

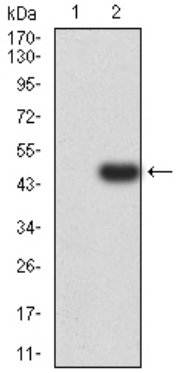


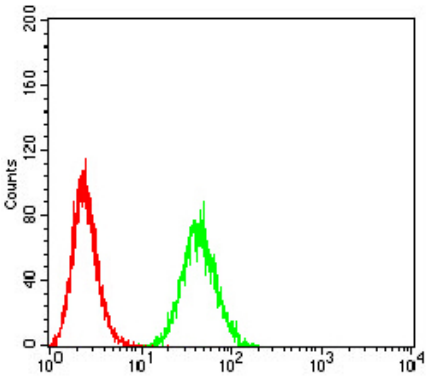
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



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)-hIgGFc transfected HEK293 (2) cell lysate.





Flow cytometric analysis of Hela cells using B3GAT1 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.