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B3GAT1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP9926a

Specification

B3GAT1 Antibody (N-term) - Product Information

Application	**FC, WB,E**
Primary Accession	Q9P2W7
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**38256**
Antigen Region	**21-48**

B3GAT1 Antibody (N-term) - 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 rabbits immunized with a KLH conjugated synthetic peptide between 21-48 amino acids from the N-terminal region of human B3GAT1.

Dilution
FC~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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 (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

B3GAT1 Antibody (N-term) - 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}

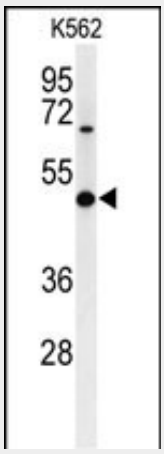
Tissue Location
Mainly expressed in the brain.

B3GAT1 Antibody (N-term) - 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 (N-term) - Images



Western blot analysis of B3GAT1 Antibody (N-term) (Cat. #AP9926a) in K562 cell line lysates (35ug/lane). B3GAT1 (arrow) was detected using the purified Pab.

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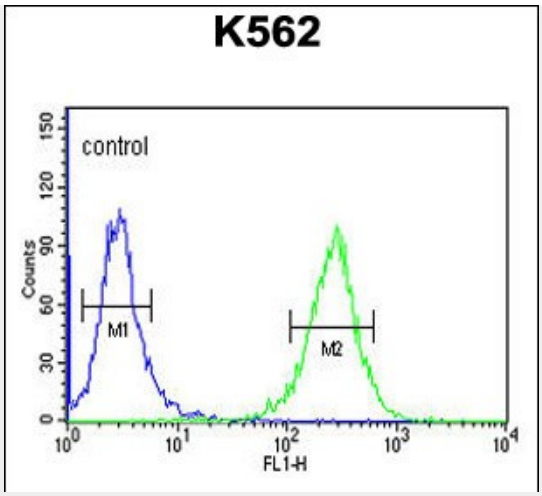

B3GAT1 Antibody (N-term) (Cat. #AP9926a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

B3GAT1 Antibody (N-term) - 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).

B3GAT1 Antibody (N-term) - References

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)