

B3GAT3 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12032b**Specification**

B3GAT3 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O94766
Other Accession	P58158 , Q9WU47 , NP_036332.2
Reactivity	Human
Predicted	Hamster, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37122
Antigen Region	293-321

B3GAT3 Antibody (C-term) - Additional Information**Gene ID** 26229**Other Names**

Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 3, Beta-1,
3-glucuronyltransferase 3, Glucuronosyltransferase I, GlcAT-I, UDP-GlcUA:Gal beta-1, 3-Gal-R
glucuronyltransferase, GlcUAT-I, B3GAT3

Target/Specificity

This B3GAT3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 293-321 amino acids from the C-terminal region of human B3GAT3.

Dilution

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

B3GAT3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

B3GAT3 Antibody (C-term) - Protein Information

Name B3GAT3

Function Glycosaminoglycans biosynthesis (PubMed:[25893793](#)). Involved in forming the linkage tetrasaccharide present in heparan sulfate and chondroitin sulfate. Transfers a glucuronic acid moiety from the uridine diphosphate-glucuronic acid (UDP-GlcUA) to the common linkage region trisaccharide Gal-beta-1,3-Gal-beta-1,4-Xyl covalently bound to a Ser residue at the glycosaminoglycan attachment site of proteoglycans. Can also play a role in the biosynthesis of I2/HNK-1 carbohydrate epitope on glycoproteins. Shows strict specificity for Gal-beta-1,3-Gal-beta-1,4-Xyl, exhibiting negligible incorporation into other galactoside substrates including Galbeta1-3Gal beta1-O-benzyl, Galbeta1-4GlcNAc and Galbeta1-4Glc. Stimulates 2-phosphoxylose phosphatase activity of PXYLP1 in presence of uridine diphosphate- glucuronic acid (UDP-GlcUA) during completion of linkage region formation (PubMed:[24425863](#)).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein. Golgi apparatus, cis-Golgi network

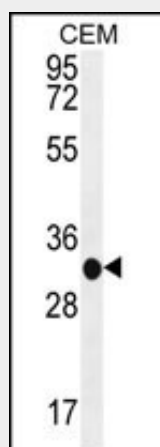
Tissue Location

Ubiquitous (but weakly expressed in all tissues examined)

B3GAT3 Antibody (C-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 Cytometry](#)
- [Cell Culture](#)

B3GAT3 Antibody (C-term) - Images

B3GAT3 Antibody (C-term) (Cat. #AP12032b) western blot analysis in CEM cell line lysates (35ug/lane). This demonstrates the B3GAT3 antibody detected the B3GAT3 protein (arrow).

B3GAT3 Antibody (C-term) - Background

The protein encoded by this gene is a member of the glucuronyltransferase gene family, enzymes that exhibit strict acceptor specificity, recognizing nonreducing terminal sugars and their anomeric linkages. This gene product catalyzes the formation of the glycosaminoglycan-protein linkage by way of a glucuronyl transfer reaction in the final step of the biosynthesis of the linkage region of proteoglycans.

B3GAT3 Antibody (C-term) - References

Tone, Y., et al. J. Biol. Chem. 283(24):16801-16807(2008)
Fondeur-Gelinotte, M., et al. Glycobiology 17(8):857-867(2007)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Gulberti, S., et al. J. Biol. Chem. 280(2):1417-1425(2005)
Venkatesan, N., et al. Proc. Natl. Acad. Sci. U.S.A. 101(52):18087-18092(2004)