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B3GAT2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10471c

Product Information

Application	WB, E
Primary Accession	Q9NPZ5
Other Accession	Q9Z137, P59270, NP_542780.1
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23599
Calculated MW	36919
Antigen Region	123-150

Additional Information

Gene ID	135152
Other Names	Galactosylgalactosylxylosylprotein 3-beta-glucuronosyltransferase 2, Beta-1, 3-glucuronyltransferase 2, GlcAT-D, UDP-glucuronosyltransferase S, GlcAT-S, Glucuronosyltransferase S, B3GAT2, GLCATS, KIAA1963
Target/Specificity	This B3GAT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 123-150 amino acids from the Central region of human B3GAT2.
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	B3GAT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	B3GAT2
Synonyms	GLCATS, KIAA1963

Function	Involved in the biosynthesis of L2/HNK-1 carbohydrate epitope on both glycolipids and glycoproteins.
Cellular Location	Golgi apparatus membrane; Single-pass type II membrane protein
Tissue Location	Expressed in the trachea, retina, spinal cord, hippocampus and other brain regions, and, at lower levels, in testis and ovary

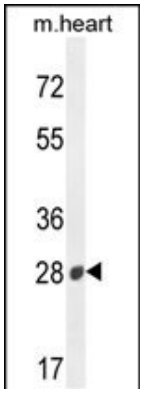
Background

The product of this gene is a transmembrane protein belonging to the glucuronyltransferase family, and catalyzes the transfer of a beta-1,3 linked glucuronic acid to a terminal galactose in different glycoproteins or glycolipids containing a Gal-beta-1-4GlcNAc or Gal-beta-1-3GlcNAc residue. The encoded protein is involved in the synthesis of the human natural killer-1 (HNK-1) carbohydrate epitope, a sulfated trisaccharide implicated in cellular migration and adhesion in the nervous system. [provided by RefSeq].

References

Bailey, S.D., et al. Diabetes Care (2010) In press :
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Shiba, T., et al. Proteins 65(2):499-508(2006)
Kakuda, S., et al. Glycobiology 15(2):203-210(2005)
Kakuda, S., et al. Protein Expr. Purif. 35(1):111-119(2004)

Images



B3GAT2 Antibody (Center) (Cat. #AP10471c) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the B3GAT2 antibody detected the B3GAT2 protein (arrow).