

B3GNT7 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP4793C

Specification

B3GNT7 Antibody (Center) - Product Information

Application IHC-P, WB,E Primary Accession Q8NFL0

Reactivity Human, Mouse

Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 45987
Antigen Region 256-282

B3GNT7 Antibody (Center) - Additional Information

Gene ID 93010

Other Names

UDP-GlcNAc:betaGal beta-1, 3-N-acetylglucosaminyltransferase 7, BGnT-7, Beta-1, 3-Gn-T7, Beta-1, 3-N-acetylglucosaminyltransferase 7, Beta3Gn-T7, 241-, B3GNT7

Target/Specificity

This B3GNT7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 256-282 amino acids from the Central region of human B3GNT7.

Dilution

IHC-P~~1:50~100 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

B3GNT7 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

B3GNT7 Antibody (Center) - Protein Information

Name B3GNT7 {ECO:0000303|PubMed:17690104, ECO:0000312|HGNC:HGNC:18811}



Function N-acetyl glucosamine (GlcNAc) transferase that catalyzes the transfer of GlcNAc via a beta1->3 linkage from UDP-GlcNAc to the non- reducing terminal galactose (Gal) in the linearly growing chain of N- and O-linked keratan sulfate proteoglycans. Cooperates with B4GALT4 galactosyltransferase and CHST6 and CHST1 sulfotransferases to construct and elongate monoand disulfated disaccharide units [->3Galbeta1->4(6-sulfoGlcNAcbeta)1->] and [->3(6-sulfoGalbeta)1->4(6-sulfoGlcNAcbeta)1->] within keratan sulfate polymer (PubMed:14706853, PubMed:17690104). Involved in biosynthesis of N-linked keratan sulfate proteoglycans in cornea, with an impact on proteoglycan fibril organization and corneal transparency (By similarity) (PubMed:17690104). May play a role in the maintenance of tissue architecture by suppressing cellular motility and invasion (By similarity).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

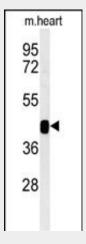
Expressed in corneal epithelial cells.

B3GNT7 Antibody (Center) - Protocols

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

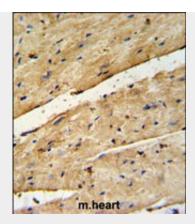
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

B3GNT7 Antibody (Center) - Images



Western blot analysis of B3GNT7 Antibody (Center) (Cat. #jpg) in mouse heart tissue lysates (35ug/lane). B3GNT7 (arrow) was detected using the purified Pab.





B3GNT7 Antibody (Center) (Cat. #AP4793c) IHC analysis in formalin fixed and paraffin embedded mouse heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the B3GNT7 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

B3GNT7 Antibody (Center) - Background

B3GNT7 is a glycosyltransferase which may play a role in elongation of the keratan sulfate carbohydrate backbone.

B3GNT7 Antibody (Center) - References

Kitayama, K., et al. J. Biol. Chem. 282(41):30085-30096(2007) Seko, A., et al. FEBS Lett. 556 (1-3), 216-220 (2004) Kataoka, K., et al. Biochem. Biophys. Res. Commun. 294(4):843-848(2002)