

B3GNT7 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP4793C**Specification**

B3GNT7 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	Q8NFLO
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

WB~~1:1000

IHC-P~~1:50~100

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 mono- and 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 (PubMed:[17690104](#)) (By similarity). 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

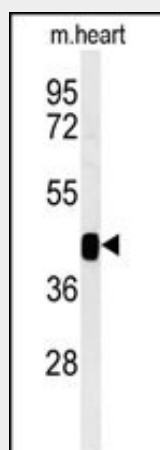
Tissue Location

Expressed in corneal epithelial cells.

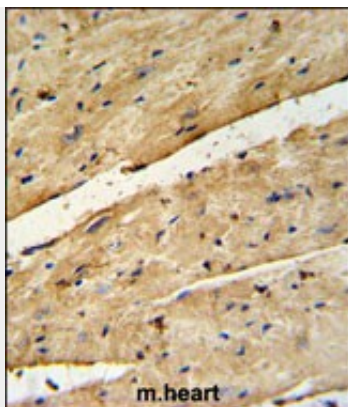
B3GNT7 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [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)