

**B3GNT7 Antibody (Center) Blocking Peptide**  
Synthetic peptide  
Catalog # BP4793c**Specification**

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**B3GNT7 Antibody (Center) Blocking Peptide - Product Information**Primary Accession [Q8NFLO](#)**B3GNT7 Antibody (Center) Blocking Peptide - 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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**B3GNT7 Antibody (Center) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/14706853" target="\_blank">14706853</a>, PubMed:<a href="http://www.uniprot.org/citations/17690104" target="\_blank">17690104</a>). Involved in biosynthesis of N-linked keratan sulfate proteoglycans in cornea, with an impact on proteoglycan fibril organization and corneal transparency (By similarity) (PubMed:<a href="http://www.uniprot.org/citations/17690104" target="\_blank">17690104</a>). 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**B3GNT7 Antibody (Center) Blocking Peptide - Images****B3GNT7 Antibody (Center) Blocking Peptide - Background**

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

**B3GNT7 Antibody (Center) Blocking Peptide - 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)