

B3gnt7 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12976**Specification**

B3gnt7 antibody - middle region - Product Information

Application	WB
Primary Accession	O8K0J2
Other Accession	NM_145222 , NP_660257
Reactivity	Human, Mouse, Rat, Rabbit, Horse, Guinea Pig, Dog
Predicted Host	Rabbit, Pig, Horse, Guinea Pig, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 45kDa KDa

B3gnt7 antibody - middle region - Additional Information**Gene ID** 227327**Alias Symbol** C330001H22Rik, beta-3GnT7**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, 2.4.1.-, B3gnt7

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-B3gnt7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

B3gnt7 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

B3gnt7 antibody - middle region - Protein Information**Name** B3gnt7**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 (By similarity). Involved in biosynthesis of N-linked keratan sulfate proteoglycans in cornea, with an impact on

proteoglycan fibril organization and corneal transparency (PubMed:29625490). May play a role in the maintenance of tissue architecture by suppressing cellular motility and invasion (PubMed:12061784).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

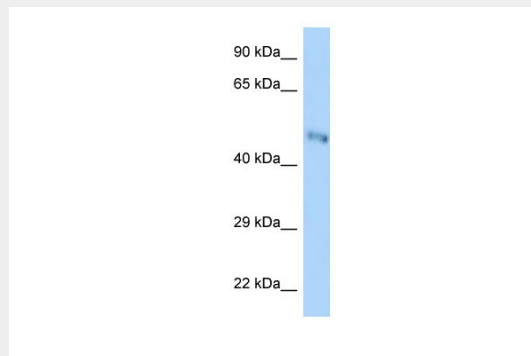
Tissue Location

Strongly expressed in placenta and colon. Moderately expressed in lung, stomach, small intestine and kidney. Very weakly expressed in cerebrum, cerebellum, heart and testis

B3gnt7 antibody - middle region - 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 - middle region - Images

WB Suggested Anti-B3gnt7 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Kidney

B3gnt7 antibody - middle region - References

Kataoka K., et al. Biochem. Biophys. Res. Commun. 294:843-848(2002).
Carninci P., et al. Science 309:1559-1563(2005).