

B3gnt7 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI12976

Product Information

Application	WB
Primary Accession	Q8K0J2
Other Accession	NM_145222 , NP_660257
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse
Predicted	Rabbit, Pig, Dog, Guinea Pig, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45379

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.

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

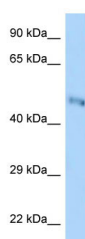
Tissue Location

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

References

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

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.