

B3GALNT2 antibody - middle region

Rabbit Polyclonal Antibody

Catalog # AI12979

Product Information

Application	WB
Primary Accession	Q8NCR0
Other Accession	NM_152490 , NP_689703
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56704

Additional Information

Gene ID	148789
Alias Symbol	B3GalNAc-T2, MGC39558
Other Names	UDP-GalNAc:beta-1, 3-N-acetylgalactosaminyltransferase 2, Beta-1, 3-GalNAc-T2, 2.4.1.-, Beta-1, 3-N-acetylgalactosaminyltransferase II, B3GALNT2
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-B3GALNT2 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	B3GALNT2 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	B3GALNT2
Function	Beta-1,3-N-acetylgalactosaminyltransferase that synthesizes a unique carbohydrate structure, GalNAc-beta-1-3GlcNAc, on N- and O- glycans. Has no galactose nor galactosaminyl transferase activity toward any acceptor substrate. Involved in alpha-dystroglycan (DAG1) glycosylation: acts coordinately with GTDC2/POMGnT2 to synthesize a GalNAc-beta3-GlcNAc-beta-terminus at the 4-position of protein O- mannose in the biosynthesis of the phosphorylated O-mannosyl trisaccharide (N-acetylgalactosamine-beta-3-N-acetylglucosamine-beta-4-(phosphate-6)-mannose), a carbohydrate structure present in alpha-

dystroglycan, which is required for binding laminin G-like domain- containing extracellular proteins with high affinity.

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein.
Endoplasmic reticulum

Tissue Location

Expressed in all tissues examined, but at highest levels in testis, adipose tissue, skeletal muscle and ovary

References

Gregory S.G.,et al.Nature 441:315-321(2006).

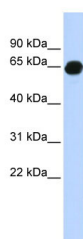
Totoki Y.,et al.Submitted (MAR-2005) to the EMBL/GenBank/DDBJ databases.

Hiruma T.,et al.J. Biol. Chem. 279:14087-14095(2004).

Stevens E.,et al.Am. J. Hum. Genet. 92:354-365(2013).

Yoshida-Moriguchi T.,et al.Science 341:896-899(2013).

Images



WB Suggested Anti-B3GALNT2 Antibody Titration: 0.2-1
µg/ml
ELISA Titer: 1:312500
Positive Control: Human brain

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