

Recombinant Mouse B3galnt2 Protein, Myc/DDK-tagged

Cat. No. B3galnt2-1799M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2 (B3galnt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	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.
Molecular Mass	57.2 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	B3galnt2 UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2 [Mus musculus (house mouse)]
Official Symbol	B3galnt2
Synonyms	B3GALNT2; UDP-GalNAc:betaGlcNAc beta 1,3-galactosaminyltransferase, polypeptide 2; UDP-GalNAc:beta-1,3-N-acetylgalactosaminyltransferase 2; beta-1,3-GalNAc-T2; beta-1,3-N-acetylgalactosaminyltransferase II; C80633; A930105D20Rik; D230016N13Rik; MGC103263
Gene ID	97884
mRNA Refseq	NM_178640
Protein Refseq	NP_848755
UniProt ID	Q8BG28

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