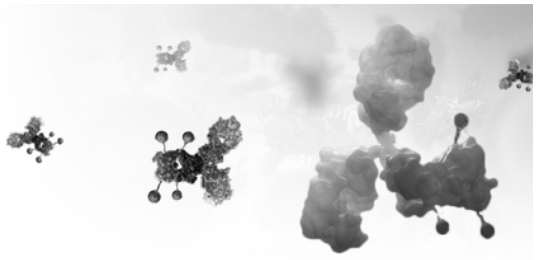

Anti-B4GALT7 monoclonal antibody, clone AB68323 (CABT-26996MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Mouse monoclonal antibody to Human B4GALT7.
Antigen Description	This gene is a member of the beta-1,4-galactosyltransferase (beta4GalT) family. Family members encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose. Each beta4GalT member has a distinct function in the biosynthesis of different glycoconjugates and saccharide structures. As type II membrane proteins, they have an N-terminal hydrophobic signal sequence that directs the protein to the Golgi apparatus which then remains uncleaved to function as a transmembrane anchor. The enzyme encoded by this gene attaches the first galactose in the common carbohydrate-protein linkage (GlcA-beta1,3-Gal-beta1,3-Gal-beta1,4-Xyl-beta1-O-Ser) found in proteoglycans. This enzyme differs from other beta4GalTs because it lacks the conserved Cys residues found in beta4GalT1-beta4GalT6 and it is located in cis-Golgi instead of trans-Golgi. Mutations in this gene have been associated with the progeroid form of Ehlers-Danlos syndrome.
Immunogen	Full length B4GALT7 protein (Human)
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	AB68323
Purification	Whole antiserum
Conjugate	Unconjugated
Applications	WB

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Format	Liquid
Size	50 µg
Buffer	Preservative: NoneConstituents: Whole serum
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

GENE INFORMATION

Gene Name	B4GALT7 xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I) [Homo sapiens]
Official Symbol	B4GALT7
Synonyms	B4GALT7; xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I); beta-1,4-galactosyltransferase 7; beta4Gal T7; XGALT 1; B4GAL T7; Beta 1,4 galactosyltransferase 7; Beta 1,4 GalTase 7; Beta4Gal T7; UDP Gal:beta GlcNAc beta 1,4 galactosyltransferase 7; XGALT 1; XGALT1; XGPT1; Xylosylprotein beta 1,4 galactosyltransferase, polypeptide 7; beta4Gal-T7; beta4GalT-VII; OTTHUMP00000161440; beta-1,4-GalTase 7; beta-1,4-galactosyltransferase VII; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 7; proteoglycan UDP-galactose:beta-xylose beta1,4-galactosyltransferase I; XGPT1; XGALT1;
Entrez Gene ID	11285
Protein Refseq	NP_009186
UniProt ID	Q9UBV7
Chromosome Location	5q35.1-q35.3
Pathway	Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; Glycosaminoglycan biosynthesis - heparan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - heparan sulfate, conserved biosystem; Glycosaminoglycan biosynthesis, linkage tetrasaccharide, organism-specific biosystem; Glycosaminoglycan biosynthesis, linkage tetrasaccharide, conserved biosystem; Metabolic pathways, organism.
Function	galactosyltransferase activity; galactosyltransferase activity; metal ion binding; transferase

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activity, transferring glycosyl groups; xylosylprotein 4-beta-galactosyltransferase activity;

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