B4GALT7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	B4GALT7, Polyclonal Antibody
Full Product Name	B4GALT7 (C-Term) Rabbit pAb
Product Gene Name	anti-B4GALT7 antibody
Product Synonym Names	Beta-1; 4-galactosyltransferase 7; Beta-1; 4-GalTase 7; Beta4Gal-T7; b4Gal-T7; 241-; UDP-Gal:beta-GlcNAc beta-1; 4-galactosyltransferase 7; UDP-galactose:beta-N-acetylglucosamine beta-1; 4-galactosyltransferase 7; Xylosylprotein 4-beta-galactosyltransferase; Proteoglycan UDP-galactose:beta-xylose beta1; 4-galactosyltransferase I; UDP-galactose:beta-xylose beta-1; 4-galactosyltransferase; XGPT; XGalT-1; Xylosylprotein beta-1; 4-galactosyltransferase; B4GALT7; XGALT1
Clonality	Polyclonal
Isotype	Ig
Clone Number	RB51691
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity Purified
OMIM	130070
3D Structure	ModBase 3D Structure for Q9UBV7
Immunogen	This B4GALT7 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 256-290 amino acids from the C-terminal region of human B4GALT7.
Cellular Localization	Golgi Apparatus, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-B4GALT7 antibody	Western Blot (WB)
Application Notes for anti-B4GALT7 antibody	WB: 1:2000
Related Product Information for anti-B4GALT7 antibody	MBS8556413 is an antibody targeting B4GALT7. Also known as B4GALT7 (C-Term) Rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-B4GALT7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B4GALT7. It may not necessarily be applicable to this product.

NCBI GI #	37182278
NCBI GeneID	11285
NCBI Accession #	AAQ88941.1
UniProt Primary Accession #	Q9UBV7

UniProt Related Accession #	Q9UBV7
NCBI Official Full Name	B4GALT7
NCBI Official Synonym Full Names	beta-1,4-galactosyltransferase 7
NCBI Official Symbol	B4GALT7
NCBI Official Synonym Symbols	XGPT; EDSP1; XGPT1; EDSSLA; XGALT1; EDSSPD1
UniProt Protein Name	Beta-1,4-galactosyltransferase 7
UniProt Synonym Protein Names	UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 7; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 7Including the following 1 domains:Xylosylprotein 4-beta-galactosyltransferase (EC:2.4.1.133)Alternative name(s):Proteoglycan UDP-galactose:beta-xylose beta1,4-galactosyltransferase I; UDP-galactose:beta-xylose beta-1,4-galactosyltransferase; XGPT; XGalT-1; Xylosylprotein beta-1,4-galactosyltransferase
Protein Family	Beta-1,4-galactosyltransferase
UniProt Gene Name	B4GALT7
UniProt Synonym Gene Names	XGALT1; Beta-1,4-GalTase 7; Beta4Gal-T7; b4Gal-T7
UniProt Entry Name	B4GT7_HUMAN
NCBI Protein Information	beta-1,4-galactosyltransferase 7
NCBI Summary for B4GALT7	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. [provided by RefSeq, Oct 2009]
UniProt Comments for B4GALT7	B4GALT7: Required for the biosynthesis of the tetrasaccharide linkage region of proteoglycans, especially for small proteoglycans in skin fibroblasts. Defects in B4GALT7 are the cause of Ehlers-Danlos syndrome progeroid type (EDSP). EDSP is a variant form of Ehlers-Danlos syndrome characterized by progeroid facies, mild mental retardation, short stature, skin hyperextensibility, moderate skin fragility, joint hypermobility principally in digits. Belongs to the glycosyltransferase 7 family. Protein type: Glycan Metabolism - chondroitin sulfate biosynthesis; Glycan Metabolism - heparan sulfate biosynthesis; Membrane protein, integral; Transferase; EC 2.4.1.133 Chromosomal Location of Human Ortholog: 5q35.2-q35.3 Cellular Component: Golgi membrane; Golgi apparatus; integral to membrane Molecular Function: beta-N-acetylglucosaminylglycopeptide beta-1,4-galactosyltransferase activity; manganese ion binding; xylosylprotein 4-beta-galactosyltransferase activity; galactosyltransferase activity Biological Process: chondroitin sulfate metabolic process; glycosaminoglycan biosynthetic process; proteoglycan metabolic process; glycosaminoglycan metabolic process; negative regulation of fibroblast proliferation; carbohydrate metabolic process; protein amino acid N-linked glycosylation; fibril organization and biogenesis; protein modification process; pathogenesis Disease: Ehlers-danlos Syndrome, Progeroid Type, 1
Research Articles on B4GALT7	**1.** The phenotypes described in this article caused by bi-allelic mutations in B4GALT7 would benefit from reclassification and loss of its current association with PEDS. These conditions would be better grouped with the other linkeropathies.

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