Recombinant Human B4GALT7 293 Cell Lysate

Cat. No. B4GALT7-8536HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for xylosylprotein beta 1,4-galactosyltransferase, polypeptide 7 (galactosyltransferase I) (B4GALT7) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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; beta4Gal-T7; beta4GalT-VII; 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; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 7; XGPT1; XGALT1;
Gene ID	11285
mRNA Refseq	NM_007255
Protein Refseq	NP_009186
MIM	604327
UniProt ID	Q9UBV7
Chromosome Location	5q35.1-q35.3

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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-specific biosystem;
Function	galactosyltransferase activity; galactosyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups; xylosylprotein 4-beta-galactosyltransferase activity;

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