

Recombinant Human B3GNT5 293 Cell Lysate

Cat. No. B3GNT5-8542HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 (B3GNT5) 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	B3GNT5 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Homo sapiens]
Official Symbol	B3GNT5
Synonyms	B3GNT5; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5; B3GNT5; beta3Gn T5; BGnT-5; lc3 synthase; beta-1,3-Gn-T5; lc(3)Cer synthase; lactotriaosylceramide synthase; beta-1,3-N-acetylglucosaminyltransferase 5; beta-1,3-N-acetylglucosaminyltransferase bGnT-5; beta 1,3 N-acetylglucosaminyltransferase Lc3 synthase; B3GN-T5; beta3Gn-T5;
Gene ID	84002
mRNA Refseq	NM_032047
Protein Refseq	NP_114436
UniProt ID	Q9BYG0
Chromosome Location	3q28
Pathway	Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Glycosphingolipid biosynthesis, lacto-series, LacCer =>Lc4Cer, organism-specific biosystem; Glycosphingolipid biosynthesis, lacto-series, LacCer => Lc4Cer, conserved biosystem; Glycosphingolipid biosynthesis, neolacto-series, LacCer =>

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Function

beta-galactosyl-N-acetylglucosaminylgalactosylglucosyl-ceramide beta-1,3-acetylglucosaminyltransferase activity; galactosyltransferase activity; lipopolysaccharide N-acetylglucosaminyltransferase activity; transferase activity, transferring glycosyl groups;

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