Recombinant Human B3GNT5 293 Cell Lysate

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

SPECIFICATION

Product Overview	
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.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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	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; B3GN T5; 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-acetyglucosaminyltransferase 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-

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	specific biosystem; Glycosphingolipid biosynthesis, lacto-series, LacCer => Lc4Cer, conserved biosystem; Glycosphingolipid biosynthesis, neolacto-series, LacCer =>
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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