

# Recombinant Human B3GNT3 293 Cell Lysate

**Cat. No.** B3GNT3-8543HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 (B3GNT3) 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.                                                                             |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | 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** B3GNT3 UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3 [ Homo sapiens ]

**Official Symbol** B3GNT3

**Synonyms** B3GNT3; UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 3; TMEM3; B3GN T3; B3GNT 3; beta 1; 3 N acetylglucosaminyltransferase bGnT 3; beta3Gn T3; HP10328; putative type II membrane protein; transmembrane protein 3; beta3GalT8; beta-3-Gx-T8; beta-1,3-Gn-T3; beta-1,3-GalTase 8; core1-beta3GlcNAcT; beta-1,3-N-acetylglucosaminyltransferase bGnT-3; UDP-Gal:beta-GlcNAc beta-1,3-galactosyltransferase 8; core 1 extending beta-1,3-N-acetylglucosaminyltransferase; UDP-galactose:beta-N-acetylglucosamine beta-1,3-galactosyltransferase 8; B3GN-T3; B3GNT-3; B3GAL-T8; beta3Gn-T3;

**Gene ID** 10331

**mRNA Refseq** NM\_014256

**Protein Refseq** NP\_055071

**MIM** 605863

**UniProt ID** Q9Y2A9

**Chromosome** 19p13.1

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| Location |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pathway  | Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; O-linked glycosylation of mucins, organism-specific biosystem; Post-translational protein modification, organism-specific biosystem; |
| Function | galactosyltransferase activity; transferase activity, transferring glycosyl groups;                                                                                                                                                                                                                                                                                                                                  |

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