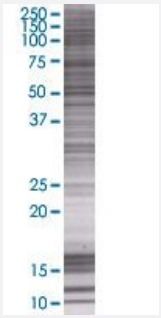
B4GALT3 293T Cell Transient Overexpression Lysate(Denatured)

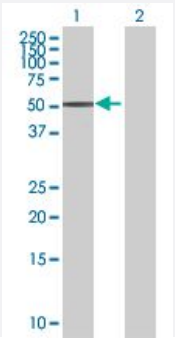
Catalog # H00008703-T01 Size 100 uL

Applications



SDS-PAGE Gel

B4GALT3 transfected lysate.



Western Blot

Lane 1: B4GALT3 transfected lysate (43.34 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-B4GALT3 full-length
Host	Human
Theoretical MW (kDa)	43.34
Interspecies Antigen Sequence	Mouse (96); Rat (96)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-B4GALT3 antibody (H00008703-B01) by Western Blots. SDS-PAGE Gel B4GALT3 transfected lysate. Western Blot Lane 1: B4GALT3 transfected lysate (43.34 KDa) Lane 2: Non-transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — B4GALT3

Entrez GeneID	8703
GeneBank Accession#	NM_003779.2
Protein Accession#	NP_003770.1
Gene Name	B4GALT3
Gene Alias	beta4Gal-T3
Gene Description	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3
Omim ID	604014
Gene Ontology	Hyperlink
Gene Summary	This gene is one of seven beta-1,4-galactosyltransferase (beta4GalT) genes. They encode type II membrane-bound glycoproteins that appear to have exclusive specificity for the donor substrate UDP-galactose; all transfer galactose in a beta1,4 linkage to similar acceptor sugars: GlcNAc, Glc, and Xyl. Each beta4GalT 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 and which then remains uncleaved to function as a transmembrane anchor. By sequence similarity, the beta4GalTs form four groups: beta4GalT1 and beta4GalT2, beta4GalT3 and beta4GalT4, beta4GalT5 and beta4GalT6, and beta4GalT7. This gene encodes an enzyme that may be mainly involved in the synthesis of the first N-acetyllactosamine unit of poly-N-acetyllactosamine chains. [provided by RefSeq

Other Designations	OTTHUMP00000032247|OTTHUMP00000032248|UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 3|UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 3|beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 3

Pathway

- Glycosphingolipid biosynthesis - lacto and neolacto series
- Keratan sulfate biosynthesis
- Metabolic pathways
- N-Glycan biosynthesis