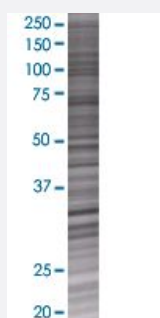


B4GALT2 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00008704-T01

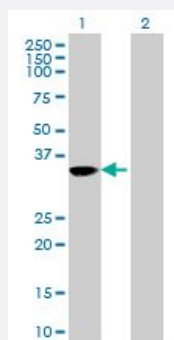
Size 100 uL

Applications



SDS-PAGE Gel

B4GALT2 transfected lysate.



Western Blot

Lane 1: B4GALT2 transfected lysate (33.77 KDa)

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-B4GALT2 full-length
Host	Human
Theoretical MW (kDa)	33.77
Interspecies Antigen Sequence	Mouse (81); Rat (80)

Quality Control Testing

Transient overexpression cell lysate was tested with Anti-B4GALT2 antibody ([H00008704-B01](#)) by Western Blots.
SDS-PAGE Gel
B4GALT2 transfected lysate.
Western Blot
Lane 1: B4GALT2 transfected lysate (33.77 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 — B4GALT2

Entrez GeneID[8704](#)**GeneBank Accession#**[BC002431](#)**Protein Accession#**[AAH02431](#)**Gene Name**

B4GALT2

Gene Alias

B4Gal-T2, B4Gal-T3, beta4Gal-T2

Gene Description

UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2

Omim ID[604013](#)**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. The enzyme encoded by this gene synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000010008|UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 2|UDP-Gal:beta GlcNAc beta 1,4-galactosyltransferase, polypeptide 2|beta-4-GalT2|beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 2

Pathway

- [Galactose metabolism](#)
- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Keratan sulfate biosynthesis](#)
- [Metabolic pathways](#)
- [N-Glycan biosynthesis](#)