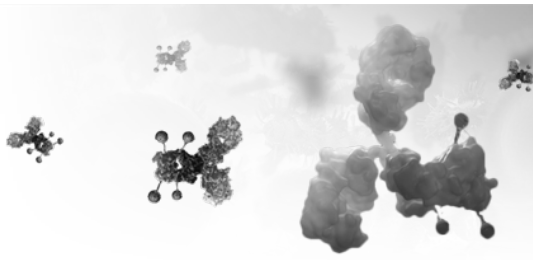

Anti-B4GALT6 monoclonal antibody (DCABH-10700)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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 is a lactosylceramide synthase important for glycolipid biosynthesis.
Immunogen	A synthetic peptide of human B4GALT6 is used for rabbit immunization.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Protein A
Conjugate	Unconjugated
Applications	Western Blot (Transfected lysate); ELISA
Buffer	In 1x PBS, pH 7.4
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	B4GALT6 UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 [Homo sapiens]
Official Symbol	B4GALT6
Synonyms	B4GALT6; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6; beta-1,4-galactosyltransferase 6; beta4GalT VI; UDP Gal:glucosylceramide beta 1; 4 galactosyltransferase; beta4GalT-VI; beta-1,4-GalTase 6; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 6; UDP-Gal:glucosylceramide beta-1,4-galactosyltransferase; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 6; B4Gal-T6; beta4Gal-T6;
Entrez Gene ID	9331
Protein Refseq	NP_004766
UniProt ID	Q9UBX8
Chromosome Location	18q11
Pathway	Asparagine N-linked glycosylation, organism-specific biosystem; Lactosylceramide biosynthesis, organism-specific biosystem; Lactosylceramide biosynthesis, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan antennae elongation, organism-specific biosystem; N-glycan antennae elongation in the medial/trans-Golgi, organism-specific biosystem;
Function	UDP-galactose:glucosylceramide beta-1,4-galactosyltransferase activity; galactosyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups;

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