



## Mouse anti-Human B4GALT4 monoclonal antibody, clone 6F3 (CABT-B9829)

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

### PRODUCT INFORMATION

<b>Immunogen</b>	B4GALT4 (NP_003769, 35 a.a. ~ 135 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	6F3
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB,sELISA,ELISA,RNAi Knockdown
<b>Sequence Similarities</b>	VGAIQUEIPKAKEFMANFHKTLLGKGKTLTNEASTKKVELDNCPSVSPYLRGQSKLIFKP DLTLEEVQAENPKVSRGRYRPQECKALQRVAILVPHRNRE*
<b>Format</b>	Liquid
<b>Size</b>	100 µg
<b>Buffer</b>	In 1x PBS, pH 7.2
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

### BACKGROUND

<b>Introduction</b>	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 appears to mainly play a role in glycolipid biosynthesis. Two alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

---

<b>Keywords</b>	B4GALT4; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4; B4Gal-T4; beta4Gal-T4; beta-1,4-galactosyltransferase 4; beta-1,4-GalTase 4; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 4; UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 4; beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 4; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 4;
-----------------	--

---

## GENE INFORMATION

<b>Entrez Gene ID</b>	<a href="#">8702</a>
<b>UniProt ID</b>	<a href="#">O60513</a>
<b>Pathway</b>	Asparagine N-linked glycosylation, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - keratan sulfate, conserved biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, organism-specific biosystem; Glycosphingolipid biosynthesis - lacto and neolacto series, conserved biosystem; Metabolic pathways, organism-specific biosystem
<b>Function</b>	N-acetyllactosamine synthase activity; galactosyltransferase activity; metal ion binding; transferase activity, transferring glycosyl groups

---