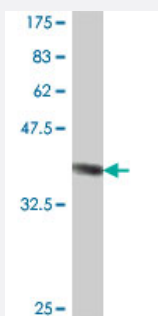


B3GALT5 polyclonal antibody (A01)

Catalog # H00010317-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (37.11 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a partial recombinant B3GALT5.
Immunogen	B3GALT5 (NP_006048, 29 a.a. ~ 128 a.a) partial recombinant protein with GST tag.
Sequence	NPFKEQSFVYKKDGNFLKLPDTCRQTPPFLVLLVTSSHKQLAERMAIRQTWGERMVKGKQLK TFLLGTTSSAAETKEVDQESQRHGDIIQKDFLDVY
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (62); Rat (61)
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.11 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — B3GALT5

Entrez GeneID [10317](#)

GeneBank Accession# [NM_006057](#)

Protein Accession# [NP_006048](#)

Gene Name B3GALT5

Gene Alias B3GalT-V, B3GalTx, B3T5, GLCT5, beta3Gal-T5

Gene Description UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 5

Omim ID [604066](#)

Gene Ontology [Hyperlink](#)

Gene Summary

This gene is a member of the beta-1,3-galactosyltransferase (beta3GalT) gene family. This family encodes type II membrane-bound glycoproteins with diverse enzymatic functions using different donor substrates (UDP-galactose and UDP-N-acetylglucosamine) and different acceptor sugars (N-acetylglucosamine, galactose, N-acetylgalactosamine). The beta3GalT genes are distantly related to the Drosophila Brainiac gene and have the protein coding sequence contained in a single exon. The beta3GalT proteins also contain conserved sequences not found in the beta4GalT or alpha3GalT proteins. The carbohydrate chains synthesized by these enzymes are designated as type 1, whereas beta4GalT enzymes synthesize type 2 carbohydrate chains. The ratio of type 1:type 2 chains changes during embryogenesis. By sequence similarity, the beta3GalT genes fall into at least two groups: beta3GalT4 and 4 other beta3GalT genes (beta3GalT1-3, beta3GalT5). This gene encodes the most probable candidate for synthesis of the type 1 Lewis antigens which are frequently found to be elevated in gastrointestinal and pancreatic cancers. The encoded protein is inactive with N-linked glycoproteins and functions in mucin glycosylation. Five transcript variants have been described which differ in the 5' UTR. All transcript variants encode an identical protein. [provided by RefSeq]

Other Designations

GlcNAc-beta-1,3-galactosyltransferase 5[OTTHUMP00000109185|OTTHUMP00000109186|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 5|homolog of C. elegans Bt toxin resistance gene bre-5]

Pathway

- [Glycosphingolipid biosynthesis - globo series](#)

- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Metabolic pathways](#)

Disease

- [Bipolar Disorder](#)
- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)