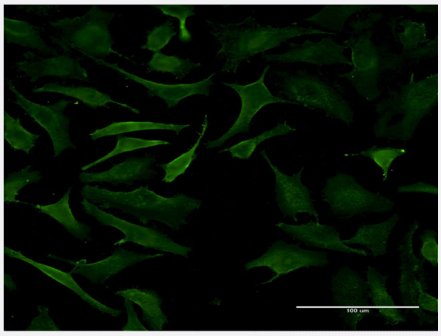
B3GALT2 monoclonal antibody (M03), clone 1D9

Catalog # H00008707-M03 Size 100 ug

Applications



Immunofluorescence

Immunofluorescence of monoclonal antibody to B3GALT2 on HeLa cell . [antibody concentration 10 ug/ml]

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant B3GALT2.
Immunogen	B3GALT2 (NP_003774, 324 a.a. ~ 422 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	AEKIFKVSLGIRRLHLEDVYVGICLAKLRIDPVPPPNEFVFNHWRVSYSSCKYSHLITSHQFQPSELIKYWNHLQQNKHNACANAAKEKAGRYRHRKLH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (98)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- ELISA
- Immunofluorescence

  Immunofluorescence of monoclonal antibody to B3GALT2 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — B3GALT2

Entrez GeneID	8707
GeneBank Accession#	NM_003783
Protein Accession#	NP_003774
Gene Name	B3GALT2
Gene Alias	BETA3GALT2, GLCT2, beta3Gal-T2
Gene Description	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 2
Omim ID	603018
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 a protein that functions in N-linked glycoprotein glycosylation and shows strict donor substrate specificity for UDP-galactose. [provided by RefSeq
Other Designations	OTTHUMP00000033797|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 2|beta-3-galt2

Pathway

- Glycosphingolipid biosynthesis - lacto and neolacto series

- Metabolic pathways