

B3GALNT1 rabbit monoclonal antibody

Catalog # H00008706-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human B3GALNT1 peptide using ARM Technology.
Immunogen	A synthetic peptide of human B3GALNT1 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human B3GALNT1 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	<ol style="list-style-type: none">1. Customer may provide cell or tissue lysate for antibody screening.2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering including F(ab)₂, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- ELISA

Gene Info — B3GALNT1

Entrez GeneID [8706](#)

GeneBank Accession# [B3GALNT1](#)

Gene Name B3GALNT1

Gene Alias B3GALT3, GLCT3, GLOB, Gb4Cer, P, P1, beta3Gal-T3, galT3

Gene Description beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group)

Omim ID [111400 603094](#)

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). The encoded protein of this gene does not use N-acetylglucosamine as an acceptor sugar at all. Multiple transcript variants that are alternatively spliced in the 5' UTR have been described; they all encode the same protein. [provided by RefSeq]

Other Designations

P antigen synthase|P blood group globoside|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase 1|UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase, polypeptide 3 (Globoside blood group)|UDP-GalNAc:betaGlcNAc beta-1,3-galactosaminyltransferase, polypeptide 1

Pathway

- [Glycosphingolipid biosynthesis - globo series](#)
- [Metabolic pathways](#)