

DNAxPAb

Hard-to-Find
Antibody

B4GALT2 DNAxPab

Catalog # H00008704-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human B4GALT2 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MPSTQLLAAAAAATAPGPTPPPLAPGSLRSPVPCVPRLPRCHPVLTRHLVLRVHRENPGLVM GGRYTPDCTPAQTVAVIIPFRHREHHLRYWLHYLHPILRRQRLRYGVYVINQHGEDTFNRAKLLNV GFLEALKEDAAAYDCIFSDVDLVPMDDRNLYRCGDQPRHFIAIMDKFGFRLPYAGYFGGVSGLS KAQFLRINGFPNEYWGWGGEDDDIFNRISLTGMKVSRPDIRIGRYRMIKHDRDKHNEPNPQRFTKIQ NTKLTMKRDGIGSVRYQVLEVSRQPLFTNITVDIGRPPSWPPRG
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — B4GALT2

Entrez GeneID [8704](#)

GeneBank Accession# [BC002431](#)

Protein Accession# [AAH02431](#)

Gene Name B4GALT2

Gene Alias B4Gal-T2, B4Gal-T3, beta4Gal-T2

Gene Description UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 2

Omim ID [604013](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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 synthesizes N-acetyllactosamine in glycolipids and glycoproteins. Its substrate specificity is affected by alpha-lactalbumin but it is not expressed in lactating mammary tissue. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq]

Other Designations

OTTHUMP00000010008|UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase 2|UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2|beta-4-GalT2|beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase 2

Pathway

- [Galactose metabolism](#)
- [Glycosphingolipid biosynthesis - lacto and neolacto series](#)
- [Keratan sulfate biosynthesis](#)
- [Metabolic pathways](#)
- [N-Glycan biosynthesis](#)