ARG41906
anti-B4GALT4 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes B4GALT4
Tested Reactivity	Hu, Ms, Rat
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	B4GALT4
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 35-344 of Human B4GALT4. (NP_003769.1)
Conjugation	Un-conjugated
Alternate Names	Beta-1,4-GalTase 4; EC 2.4.1.-; b4Gal-T4; Beta4Gal-T4; Nal synthase; B4Gal-T4; EC 2.4.1.90; Beta-1,4-galactosyltransferase 4; Beta-N-acetylglucosaminyl-glycolipid beta-1,4-galactosyltransferase; UDP-galactose:beta-N-acetylglucosamine beta-1,4-galactosyltransferase 4; beta4Gal-T4; EC 2.4.1.275; UDP-Gal:beta-GlcNAc beta-1,4-galactosyltransferase 4

Application Instructions

Application table

Application	Dilution
WB	1:500 - 1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: Mouse thymus

Observed Size: ~ 39 kDa

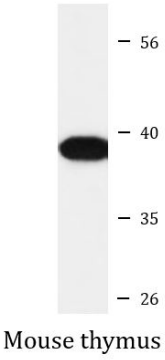
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	B4GALT4
Gene Full Name	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4
Background	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]
Function	Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. [UniProt]
Calculated Mw	40 kDa
Cellular Localization	Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Note=Trans cisternae of Golgi stack. [UniProt]

Images



ARG41906 anti-B4GALT4 antibody WB image

Western blot: 25 µg of Mouse thymus lysate stained with ARG41906 anti-B4GALT4 antibody at 1:1000 dilution.