

## Product datasheet

info@arigobio.com

# 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

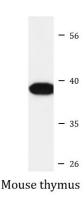
as the carbohydrate moieties of glycolipids. [UniProt]

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  $\mu g$  of Mouse thymus lysate stained with ARG41906 anti-B4GALT4 antibody at 1:1000 dilution.