

## **Product datasheet for TA336174**

## **B4GALT3 (B4GALT2) Rabbit Polyclonal Antibody**

## **Product data:**

**Product Type:** Primary Antibodies

Applications: WB

Recommended Dilution: WB

Reactivity: Human

Host: Rabbit

**Isotype:** IgG

Clonality: Polyclonal

**Immunogen:** The immunogen for Anti-B4GALT2 Antibody: synthetic peptide directed towards the middle

region of human B4GALT2. Synthetic peptide located within the following region:

NRISLTGMKISRPDIRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMKR

Formulation: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2%

sucrose.

Note that this product is shipped as lyophilized powder to China customers.

**Purification:** Affinity Purified

Conjugation: Unconjugated

**Store** at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

Predicted Protein Size: 42 kDa

**Gene Name:** beta-1,4-galactosyltransferase 2

Database Link: NP 001005417

Entrez Gene 8704 Human

O60909



**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



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 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.

**Synonyms:** B4Gal-T2; B4Gal-T3; beta4Gal-T2

**Note:** Immunogen Sequence Homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human:

100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Zebrafish: 93%; Sheep:

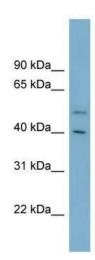
91%; Goat: 85%

**Protein Families:** Transmembrane

**Protein Pathways:** Galactose metabolism, Glycosphingolipid biosynthesis - lacto and neolacto series, Keratan

sulfate biosynthesis, Metabolic pathways, N-Glycan biosynthesis

## **Product images:**



WB Suggested Anti-B4GALT2 Antibody Titration: 0.2-1 ug/ml; Positive Control: Human Thymus