



Rabbit Anti-B4GALT2 antibody

SL23826R

Product Name:	B4GALT2
Chinese Name:	B4GALT2抗体
Alias:	Beta-1,4-Galactosyltransferase 2; UDP-Galactose:Beta-N-Acetylglucosamine Beta-1,4-Galactosyltransferase 2; UDP-Gal:Beta-GlcNAc Beta-1,4-Galactosyltransferase 2; Beta-1,4-GalTase 2; Beta4Gal-T2; B4Gal-T2; Beta-N-Acetylglucosaminyl-Glycolipid Beta-1,4-Galactosyltransferase 2; UDP-Gal:BetaGlcNAc Beta 1,4- Galactosyltransferase, Polypeptide 2; UDP-Gal:BetaGlcNAc Beta 1,4-Galactosyltransferase, Polypeptide 2; UDP-Gal:BetaGlcNAc Beta 1,4- Galactosyltransferase 2; Beta-4-GalT2; EC 2.4.1.-; B4Gal-T3; B4GT2 HUMAN;
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	42kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human B4GALT2:201-300/372<Cytoplasmic>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jul 2011]

Function:

Responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids. Can produce lactose.

Subcellular Location:

Golgi apparatus

Tissue Specificity:

Weakly expressed in various tissues. Highest expression in prostate, testis, ovary, intestine, muscle, and in fetal brain.

Similarity:

Belongs to the glycosyltransferase 7 family.

SWISS:

O60909

Gene ID:

8704

Database links:

[Entrez Gene: 8704](#)Human

[Entrez Gene: 53418](#)Mouse

[Omim: 604013](#)Human

[SwissProt: O60909](#)Human

[SwissProt: Q9Z2Y2](#)Mouse

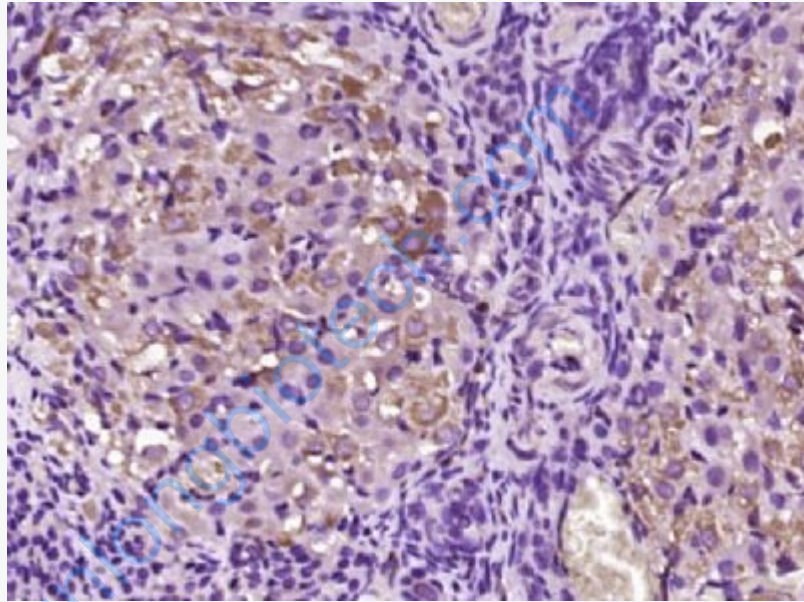
Product Detail:

[Unigene: 632403](#)Human

[Unigene: 123843](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat ovary); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (B4GALT2) Polyclonal Antibody, Unconjugated (SL23826R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.