

B4GalT1 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP8892b**Specification****B4GalT1 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [P15291](#)**B4GalT1 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID 2683****Other Names**

Beta-1, 4-galactosyltransferase 1, Beta-1, 4-GalTase 1, Beta4Gal-T1, b4Gal-T1, 241-, UDP-Gal:beta-GlcNAc beta-1, 4-galactosyltransferase 1, UDP-galactose:beta-N-acetylglucosamine beta-1, 4-galactosyltransferase 1, Lactose synthase A protein, N-acetyllactosamine synthase, Nal synthase, Beta-N-acetylglucosaminylglycopeptide beta-1, 4-galactosyltransferase, Beta-N-acetylglucosaminyl-glycolipid beta-1, 4-galactosyltransferase, 241-, Processed beta-1, 4-galactosyltransferase 1, B4GALT1, GGTB2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP8892b](/products/AP8892b) was selected from the C-term region of human B4GalT1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

B4GalT1 Antibody (C-term) Blocking Peptide - Background

B4GalT1 is an enzyme that participates both in glycoconjugate and lactose biosynthesis. For the first activity, the enzyme adds galactose to N-acetylglucosamine residues that are either monosaccharides or the nonreducing ends of glycoprotein carbohydrate chains. The second activity is restricted to lactating mammary tissues where the enzyme forms a heterodimer with alpha-lactalbumin to catalyze UDP-galactose + D-glucose UDP + lactose. The two enzymatic forms result from alternate transcription initiation sites and post-translational processing.

B4GalT1 Antibody (C-term) Blocking Peptide - References

Mengle-Gaw, L., et.al., Biochem. Biophys. Res. Commun. 176 (3), 1269-1276 (1991)

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

B4GalT1 Antibody (C-term) Blocking Peptide - Protein Information

Name B4GALT1 ([HGNC:924](#))

Synonyms GGTB2

Function

[Beta-1,4-galactosyltransferase 1]: The Golgi complex form catalyzes the production of lactose in the lactating mammary gland and could also be responsible for the synthesis of complex-type N-linked oligosaccharides in many glycoproteins as well as the carbohydrate moieties of glycolipids.

Cellular Location

[Isoform Long]: Golgi apparatus, Golgi stack membrane; Single-pass type II membrane protein. Cell membrane; Single-pass type II membrane protein Cell surface. Cell projection, filopodium
{ECO:0000250|UniProtKB:P15535}.

Note=Found in trans cisternae of Golgi but is mainly localized at the plasma membrane (PubMed:1714903) B4GALT1 cell surface expression is regulated by UBE2Q1 (By similarity)

{ECO:0000250|UniProtKB:P15535,
ECO:0000269|PubMed:1714903}

[Processed beta-1,4-galactosyltransferase 1]: Secreted. Note=Soluble form found in body fluids.

Tissue Location

Ubiquitously expressed, but at very low levels in fetal and adult brain

B4GalT1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)