

Rabbit anti-Human, Mouse B4GALT1 Polyclonal Antibody | anti-B4GALT1 antibody

B4GALT1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324513	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

B4GALT1; Polyclonal Antibody; B4GALT1 Antibody; 384.Beta-N-acetylglucosaminyl-glycolipid beta-1; 4-galactosyltransferase; 4-galactosyltransferase 1; 4-GalTase 1; b4Gal-T1; B4galt1; B4GT1_HUMAN; Beta-1; Beta-N-acetylglucosaminylglycopeptide beta-1; Beta4Gal-T1; CDG2D; GGTB2; GT1; GTB; Lactose synthase A protein; N-acetylglucosamine synthase; Nal synthase; Processed beta-1; UDP-Gal:beta-GlcNAc beta-1; UDP-galactose:beta-N-acetylglucosamine beta-1; anti-B4GALT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	B4GALT1 antibody detects endogenous levels of total B4GALT1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	398
Applicable Applications for anti-B4GALT1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Golgi Apparatus > Golgi Stack Membrane. Cell Membrane. Cell Surface. Found in trans cisternae of Golgi; Golgi Apparatus > Golgi Stack Membrane. Found in trans cisternae of golgi and secreted. Soluble form found in body fluids.
Tissue Specificity	Ubiquitously expressed, but at very low levels in fetal and adult brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA324513 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA324513 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from Jurkat/293 cells, using B4GALT1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-B4GALT1 antibody

Function: 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.

Subunit Structure: Homodimer; and heterodimer with alpha-lactalbumin to form lactose synthase. Interacts (via N-terminal cytoplasmic domain) with UBE2Q1 (via N-terminus); the interaction is direct (By similarity).

Post-translational Modifications: The soluble form derives from the membrane forms by proteolytic processing.

Similarity: Belongs to the glycosyltransferase 7 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13929462
NCBI GeneID	2683
NCBI Accession #	NP_001488.2
NCBI GenBank Nucleotide #	NM_001497.3
UniProt Accession #	P15291; Q12909; Q12910; Q12911; Q14456; Q14509; Q14523; B2R710; D3DRL2
Molecular Weight	Observed: 43 kD Predicted: 44 kDa
NCBI Official Full Name	beta-1,4-galactosyltransferase 1
NCBI Official Synonym Full Names	beta-1,4-galactosyltransferase 1
NCBI Official Symbol	B4GALT1
NCBI Official Synonym Symbols	GT1; GTB; CDG2D; GGTB2; B4GAL-T1; beta4Gal-T1
NCBI Protein Information	beta-1,4-galactosyltransferase 1
UniProt Protein Name	Beta-1,4-galactosyltransferase 1
UniProt Gene Name	B4GALT1
UniProt Synonym Gene Names	GGTB2; Beta-1,4-GalTase 1; Beta4Gal-T1; b4Gal-T1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

