C1GALT1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	C1GALT1, Polyclonal Antibody
Full Product Name	C1GALT1 (Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, B3Gal-T8, Core 1 O-Glycan T-Synthase, Core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase 1, Beta-1,3-galactosyltransferase, Core 1 beta1,3-galactosy
Product Gene Name	anti-C1GALT1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes C1GALT1. Species Crossreactivity: human, mouse
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,935 Da
OMIM	610555
3D Structure	ModBase 3D Structure for Q9NS00
Immunogen	KLH conjugated synthetic peptide corresponding to aa115-144 at the Central region of human C1GALT1.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-C1GALT1 antibody	Antibodies; Enzymes; Glycosyltransferase
Applications Tested/Suitable for anti-C1GALT1 antibody	Western Blot (WB)
Application Notes for anti-C1GALT1 antibody	WB: 1:1000 Applications are based on unconjugated antibody.
Related Product Information for anti-C1GALT1 antibody	MBS6454638 is an antibody targeting C1GALT1. Also known as C1GALT1 (Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1, B3Gal-T8, Core 1 O-Glycan T-Synthase, Core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase 1, Beta-1,3-galactosyltransferase, Core 1 beta1,3-galactosy. Reactive in Human, Mouse. Host: Rabbit.
Product References and Citations for anti-C1GALT1 antibody	Ju T., et al. J. Biol. Chem. 277:178-186(2002). Jensen M.P.A., et al. Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases. Hillier L.W., et al. Nature 424:157-164(2003). Scherer S.W., et al. Science 300:767-772(2003). Ju T., et al. Proc. Natl. Acad. Sci. U.S.A. 99:16613-16618(2002).
Other Notes	Small volumes of anti-C1GALT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for C1GALT1. It may not necessarily be applicable to this product.

NCBI GI #	9910144
NCBI GeneID	56913
NCBI Accession #	NP_064541.1
UniProt Primary Accession #	Q9NS00
UniProt Secondary Accession #	Q96QH4; Q9BTU1
UniProt Related Accession #	Q9NS00
GenBank Nucleotide #	NM_020156.4
NCBI Official Full Name	glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1
NCBI Official Synonym Full Names	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1
NCBI Official Symbol	C1GALT1
NCBI Official Synonym Symbols	C1GALT; T-synthase
UniProt Protein Name	Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1
UniProt Synonym Protein Names	B3Gal-T8; Core 1 O-glycan T-synthase; Core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase 1; Beta-1,3-galactosyltransferase; Core 1 beta1,3-galactosyltransferase 1; C1GalT1; Core 1 beta3-Gal-T1
Protein Family	Glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase
UniProt Gene Name	C1GALT1
UniProt Synonym Gene Names	Beta-1,3-galactosyltransferase; C1GalT1; Core 1 beta3-Gal-T1
UniProt Entry Name	C1GLT_HUMAN
NCBI Protein Information	glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase 1; B3Gal-T8; core 1 O-glycan T-synthase; core 1 UDP-galactose:N-acetylgalactosamine-alpha-R beta 1,3-galactosyltransferase 1; core 1 beta3-Gal-T1; core 1 synthase, glycoprotein-N-acetylgalact
NCBI Summary for C1GALT1	The protein encoded by this gene generates the common core 1 O-glycan structure, Gal-beta-1-3GalNAc-R, by the transfer of Gal from UDP-Gal to GalNAc-alpha-1-R. Core 1 is a precursor for many extended mucin-type O-glycans on cell surface and secreted glycoproteins. Studies in mice suggest that this gene plays a key role in thrombopoiesis and kidney homeostasis.[provided by RefSeq, Sep 2010]
UniProt Comments for C1GALT1	C1GALT1: Glycosyltransferase that generates the core 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Plays a central role in many processes, such as angiogenesis, thrombopoiesis and kidney homeostasis development. Belongs to the glycosyltransferase 31 family. Beta3- Gal-T subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transferase; EC 2.4.1.122; Glycan Metabolism - O-glycan biosynthesis; Membrane protein, integral Chromosomal Location of Human Ortholog: 7p21.3 Cellular Component: Golgi membrane; integral to membrane Molecular Function: protein binding; metal ion binding; glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase activity Biological Process: protein amino acid O-linked glycosylation; cellular protein metabolic process; O-glycan processing; angiogenesis; kidney development; post-translational protein modification
Research Articles on C1GALT1	**1.** C1GALT1 overexpression modifies O-glycans on FGFR2 and enhances its phosphorylation to promote the invasive behavior and cancer stem-like property in colon cancer cells.

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