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C1GALT1C1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8769a

Specification

C1GALT1C1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q96EU7

C1GALT1C1 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 29071

Other Names
C1GALT1-specific chaperone 1, C38H2-like protein 1, C38H2-L1, Core 1 beta1, 3-galactosyltransferase 2, C1Gal-T2, C1GalT2, Core 1 beta3-Gal-T2, Core 1 beta3-galactosyltransferase-specific molecular chaperone, C1GALT1C1, COSMC

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8769a was selected from the N-term region of human C1GALT1C1. 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.

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

C1GALT1C1 Antibody (N-term) Blocking Peptide - Protein Information

C1GALT1C1 Antibody (N-term) Blocking Peptide - Background

C1GALT1C1 is a type II transmembrane protein that is similar to the core 1 beta1,3-galactosyltransferase 1, which catalyzes the synthesis of the core-1 structure, also known as Thomsen-Friedenreich antigen, on O-linked glycans. This protein lacks the galactosyltransferase activity itself, but instead acts as a molecular chaperone required for the folding, stability and full activity of the core 1 beta1,3-galactosyltransferase 1.

C1GALT1C1 Antibody (N-term) Blocking Peptide - References

Ju,T. et.al., Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16613-16618 (2002)

Name C1GALT1C1

Synonyms COSMC

Function
Probable chaperone required for the generation of 1 O-glycan Gal-beta1-3GalNAc-alpha1-Ser/Thr (T antigen), which is a precursor for many extended O-glycans in glycoproteins. Probably acts as a specific molecular chaperone assisting the folding/stability of core 1 beta-3- galactosyltransferase (C1GALT1).

Cellular Location
Membrane; Single-pass type II membrane protein

Tissue Location
Ubiquitously expressed. Abundantly expressed in salivary gland, stomach, small intestine, kidney, and testis and at intermediate levels in whole brain, cerebellum, spinal cord, thymus, spleen, trachea, lung, pancreas, ovary, and uterus

C1GALT1C1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides