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CHST9 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP13188a

Specification

CHST9 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q7L1S5

CHST9 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 83539

Other Names
Carbohydrate sulfotransferase 9, 282-, GalNAc-4-O-sulfotransferase 2, GalNAc-4-ST2, GalNAc4ST-2, N-acetylgalactosamine-4-O-sulfotransferase 2, CHST9

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13188a was selected from the N-term region of CHST9. 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.

CHST9 Antibody (N-term) Blocking Peptide - Protein Information

Name CHST9

Function
Catalyzes the transfer of sulfate to position 4 of non- reducing N-acetylgalactosamine (GalNAc) residues in both N-glycans and O-glycans. Participates in biosynthesis of glycoprotein hormones lutropin and thyrotropin, by mediating sulfation of their carbohydrate structures. Has a higher activity toward carbonic anhydrase VI than toward lutropin. Only active against terminal GalNAcbeta1,GalNAcbeta. Isoform 2, but not isoform 1, is active toward chondroitin.

Cellular Location
[Isoform 1]: Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location
Highly expressed in trachea. Also expressed in fetal lung, adult pancreas, testis and salivary gland. Expressed at low level in pituitary gland, apex of the heart, adult lung, prostate and mammary

gland. Weakly or not expressed in heart, liver and spinal cord

CHST9 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CHST9 Antibody (N-term) Blocking Peptide - Images

CHST9 Antibody (N-term) Blocking Peptide - Background

Sulfate groups in carbohydrates confer highly specificfunctions on glycoproteins, glycolipids, and proteoglycans and arecritical for cell-cell interaction, signal transduction, andembryonic development. Sulfotransferases, such as CHST9, carry outsulfation of carbohydrates (Hiraoka et al., 2001 [PubMed11445554]).

CHST9 Antibody (N-term) Blocking Peptide - References

Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)Hiraoka, N., et al. Glycobiology 11(6):495-504(2001)Kang, H.G., et al. J. Biol. Chem. 276(14):10861-10869(2001)