

CHST14 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13951c**Specification**

CHST14 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q8NCHO](#)**CHST14 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 113189**Other Names**

Carbohydrate sulfotransferase 14, Dermatan 4-sulfotransferase 1, D4ST-1, hD4ST1, CHST14, D4ST1

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13951c was selected from the Center region of CHST14. 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.

CHST14 Antibody (Center) Blocking peptide - Protein Information**Name** CHST14**Synonyms** D4ST1**Function**

Catalyzes the transfer of sulfate to position 4 of the N- acetylgalactosamine (GalNAc) residue of dermatan sulfate. Plays a pivotal role in the formation of 4-O-sulfated IdoA blocks in dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA-sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA. Appears to have an important role in the formation of the cerebellar neural network during postnatal brain development.

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

Widely expressed. Expressed at high level in pituitary gland, placenta, uterus and thyroid

CHST14 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CHST14 Antibody (Center) Blocking peptide - Images**CHST14 Antibody (Center) Blocking peptide - Background**

This gene encodes a member of the HNK-1 family of sulfotransferases. The encoded protein transfers sulfate to the C-4 hydroxyl of N-acetylgalactosamine residues in dermatan sulfate. Mutations in this gene have been associated with adducted thumb-clubfoot syndrome.

CHST14 Antibody (Center) Blocking peptide - References

Miyake, N., et al. Hum. Mutat. 31(8):966-974(2010) Dunder, M., et al. Am. J. Hum. Genet. 85(6):873-882(2009) Pacheco, B., et al. Glycobiology 19(11):1197-1203(2009) Lamesch, P., et al. Genomics 89(3):307-315(2007) Mikami, T., et al. J. Biol. Chem. 278(38):36115-36127(2003)