

CHST14 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13951c**Specification**

CHST14 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	Q8NCHO
Other Accession	Q80V53 , NP_569735.1
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	42997
Antigen Region	178-205

CHST14 Antibody (Center) - Additional Information**Gene ID** 113189**Other Names**

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

Target/Specificity

This CHST14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 178-205 amino acids from the Central region of human CHST14.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CHST14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CHST14 Antibody (Center) - 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

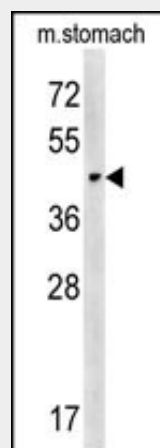
Widely expressed. Expressed at high level in pituitary gland, placenta, uterus and thyroid

CHST14 Antibody (Center) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHST14 Antibody (Center) - Images



CHST14 Antibody (Center) (Cat. #AP13951c) western blot analysis in mouse stomach tissue lysates (15ug/lane). This demonstrates the CHST14 antibody detected CHST14 protein (arrow).

CHST14 Antibody (Center) - 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) - References

Miyake, N., et al. Hum. Mutat. 31(8):966-974(2010)
Dundar, 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)