

### **CHST14 Antibody (Center)**

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13951c

# **Specification**

# **CHST14 Antibody (Center) - Product Information**

Application WB,E
Primary Accession Q8NCH0

Other Accession <u>Q80V53</u>, <u>NP 569735.1</u>

Reactivity
Host
Clonality
Polyclonal
Isotype
Calculated MW
Antigen Region

Mouse
Rabbit
Polyclonal
Rabbit IgG
A2997
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 4-0-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**

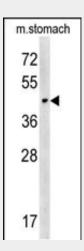
Widely expressed. Expressed at high level in pituitary gland, placenta, uterus and thyroid

# **CHST14 Antibody (Center) - Protocols**

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

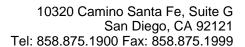
# CHST14 Antibody (Center) - Images



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)