

CHST1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12583**Specification**

CHST1 antibody - N-terminal region - Product Information

Application	WB, IHC
Primary Accession	O43916
Other Accession	NM_003654 , NP_003645
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Bovine, Guinea Pig, Dog
Predicted Host	Human, Mouse, Rat, Rabbit, Bovine, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 47kDa KDa

CHST1 antibody - N-terminal region - Additional Information**Gene ID** 8534**Alias Symbol** C6ST, KS6ST, KSGal6ST, KSST, GST-1
Other Names

Carbohydrate sulfotransferase 1, 2.8.2.21, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 1, GST-1, Keratan sulfate Gal-6 sulfotransferase, KS6ST, KSGal6ST, KSST, CHST1

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 100 ul of distilled water. Final anti-CHST1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

CHST1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

CHST1 antibody - N-terminal region - Protein Information**Name** CHST1 ([HGNC:1969](#))**Function**

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of internal galactose (Gal) residues of keratan. Cooperates with B4GALT4 and B3GNT7 glycosyltransferases and CHST6 sulfotransferase to construct and elongate disulfated disaccharide unit [->3(6- sulfoGalbeta)1->4(6-sulfoGlcNAcbeta)1->] within keratan sulfate polymer (PubMed:10642612, PubMed:<a href="http://www.uniprot.org/citations/17690104"

target="_blank">17690104, PubMed:9405439). Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer (PubMed:9405439). Involved in biosynthesis of phosphacan, a major keratan sulfate proteoglycan in the developing brain (By similarity). Involved in biosynthesis of 6-sulfoGalbeta- containing O-linked glycans in high endothelial venules of lymph nodes. May act in a synergistic manner with CHST4 to generate sialyl 6',6- disulfo Lewis X motif, a recognition determinant for immune cell receptors implicated in leukocyte trafficking (PubMed:10330415). Catalyzes sulfation of N-acetyllactosamine (LacNAc) oligosaccharides with highest efficiency for sialylated LacNAc structures (PubMed:10642612).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

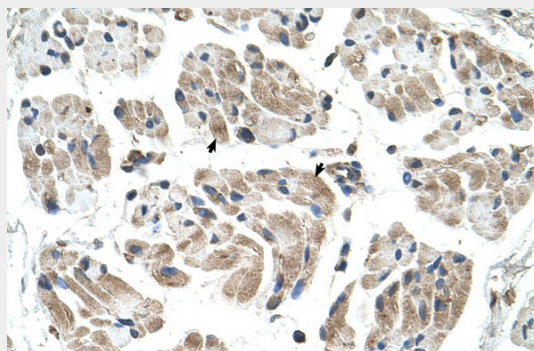
Widely expressed at low level. Expressed in brain and skeletal muscle. Expressed by high endothelial cells (HEVs) and leukocytes.

CHST1 antibody - N-terminal region - Protocols

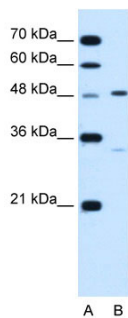
Provided below are standard protocols that you may find useful for product applications.

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

CHST1 antibody - N-terminal region - Images



Human Muscle



WB Suggested Anti-CHST1 Antibody Titration: 1.25 µg/ml
Positive Control: Jurkat cell lysate

CHST1 antibody - N-terminal region - References

Yamada, T., Biochem. J. 384 (PT3), 567-575 (2004) Reconstitution and Storage: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.