

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

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**CHST1 antibody - N-terminal region - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">O43916</a>
Other Accession	<a href="#">NM_003654</a> , <a href="#">NP_003645</a>
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 [-&gt;3(6-sulfoGalbeta)1-&gt;4(6-sulfoGlcNAcbeta)1-&gt;] within keratan sulfate polymer (PubMed:&lt;a href="http://www.uniprot.org/citations/10642612" target="\_blank"&gt;10642612&lt;/a&gt;, PubMed:&lt;a href="http://www.uniprot.org/citations/17690104" target="\_blank"&gt;17690104&lt;/a&gt;)

target="\_blank">17690104</a>, PubMed:<a href="http://www.uniprot.org/citations/9405439" target="\_blank">9405439</a>). Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer (PubMed:<a href="http://www.uniprot.org/citations/9405439" target="\_blank">9405439</a>). 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:<a href="http://www.uniprot.org/citations/10330415" target="\_blank">10330415</a>). Catalyzes sulfation of N-acetyllactosamine (LacNAc) oligosaccharides with highest efficiency for sialylated LacNAc structures (PubMed:<a href="http://www.uniprot.org/citations/10642612" target="\_blank">10642612</a>).

#### Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

#### Tissue Location

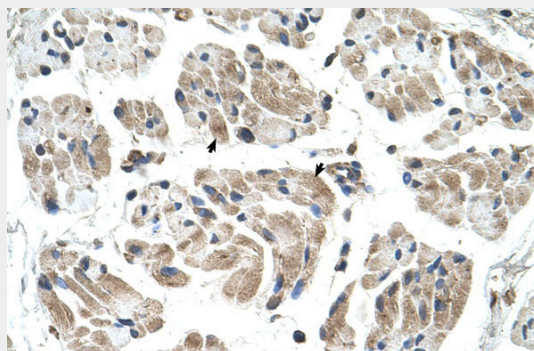
Widely expressed at low level. Expressed in brain and skeletal muscle. Expressed by high endothelial cells (HEVs) and leukocytes.

#### CHST1 antibody - N-terminal region - Protocols

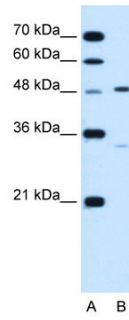
Provided below are standard protocols that you may find useful for product applications.

- [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(Pt 3), 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.