

# CHST1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI12583

## Product Information

<b>Application</b>	WB, IHC
<b>Primary Accession</b>	<a href="#">O43916</a>
<b>Other Accession</b>	<a href="#">NM_003654</a> , <a href="#">NP_003645</a>
<b>Reactivity</b>	Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Bovine
<b>Predicted</b>	Human, Mouse, Rat, Rabbit, Dog, Bovine
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	46715

## Additional Information

<b>Gene ID</b>	8534
<b>Alias Symbol</b>	C6ST, KS6ST, KSGal6ST, KSST, GST-1
<b>Other Names</b>	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
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	CHST1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

<b>Name</b>	CHST1 ( <a href="#">HGNC:1969</a> )
<b>Function</b>	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: <a href="#">10642612</a> , PubMed: <a href="#">17690104</a> , PubMed: <a href="#">9405439</a> ). Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer (PubMed: <a href="#">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:[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.

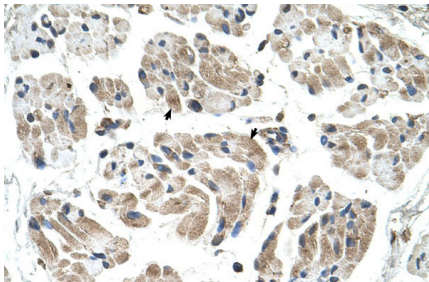
## References

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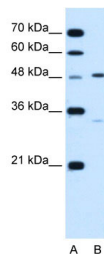
Yamada,T.,Biochem.J.384(PT3),567-575(2004)ReconstitutionandStorage:Forshorttermuse,storeat2-8°Cupto1week.Forlongtermstorage,storeat-20°Cinsmallaliquotstopreventfreeze-thawcycles.

## Images

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Human Muscle



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.