

CHST1 antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12584**Specification**

CHST1 antibody - middle region - Product Information

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

CHST1 antibody - middle 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 50 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 - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

CHST1 antibody - middle 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:

target="_blank">10642612, PubMed: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

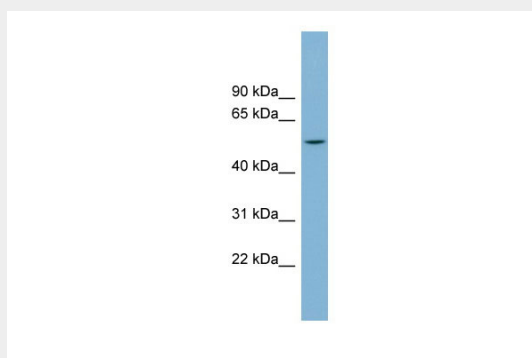
Widely expressed at low level. Expressed in brain and skeletal muscle. Expressed by high endothelial cells (HEVs) and leukocytes.

CHST1 antibody - middle region - Protocols

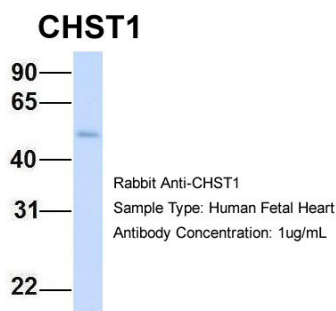
Provided below are standard protocols that you may find useful for product applications.

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

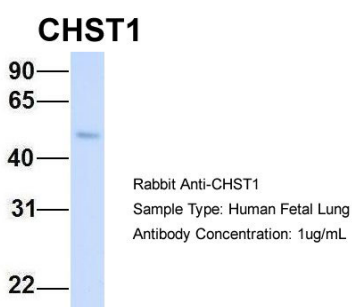
CHST1 antibody - middle region - Images



WB Suggested Anti-CHST1 Antibody Titration: 0.2-1 µg/ml
Positive Control: Human kidney



Host:Rabbit
Target Name:CHST1
Sample Tissue:Human Fetal Heart
Antibody Dilution: 1.0µg/ml



Host:Rabbit
Target Name:CHST1
Sample Tissue:Human Fetal Lung
Antibody Dilution: 1.0µg/ml

CHST1 antibody - middle region - References

Kitayama,K.,(2007)J.Biol.Chem.282(41),30085-30096ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.