

CHST1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21231b

Specification

CHST1 Antibody (C-term) - Product Information

Application	WB, IHC-P,E
Primary Accession	O43916
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	46715

CHST1 Antibody (C-term) - Additional Information

Gene ID 8534

Target/Specificity

This CHST1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 392-426 amino acids from the C-terminal region of human CHST1.

Dilution

WB~~1:2000

IHC-P~~1:25

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

CHST1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHST1 Antibody (C-term) - 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:[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

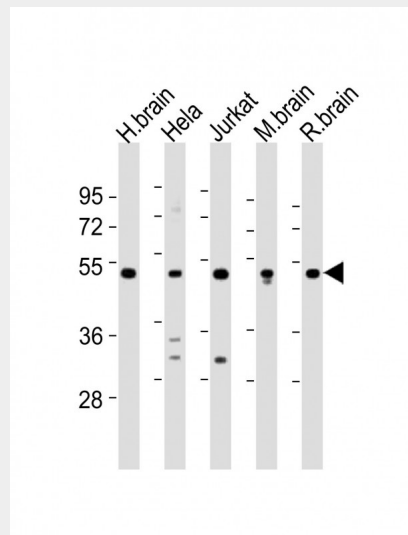
Widely expressed at low level. Expressed in brain and skeletal muscle. Expressed by high endothelial cells (HEVs) and leukocytes.

CHST1 Antibody (C-term) - Protocols

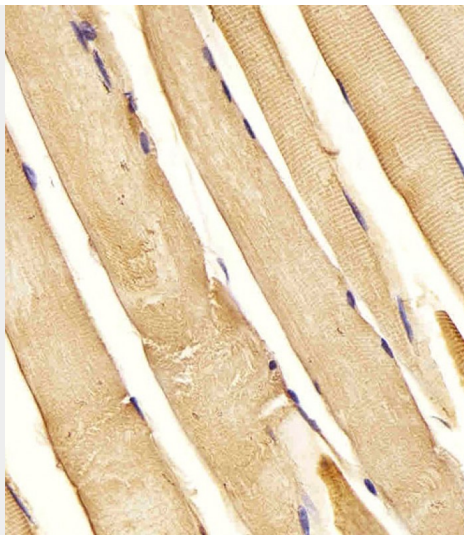
Provided below are standard protocols that you may find useful for product applications.

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

CHST1 Antibody (C-term) - Images



All lanes : Anti-CHST1 Antibody (C-term) at 1:2000 dilution Lane 1: human brain lysates Lane 2: HeLa whole cell lysates Lane 3: Jurkat whole cell lysates Lane 4: mouse brain lysates Lane 5: rat brain lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP21231b staining CHST1 in Human skeletal muscle tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3% BSA for 0.5 hour at room temperature; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody (1/25) for 1 hours at 37°C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.