

CHST1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP21231b

Specification

CHST1 Antibody (C-term) - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Calculated MW WB, IHC-P,E <u>O43916</u> Human, Mouse, Rat Rabbit polyclonal Rabbit IgG 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 E~~Use at an assay dependent concentration.

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 (<u>HGNC:1969</u>)

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-sulfoGlcNAcbeta)1->] within keratan sulfate polymer (PubMed:<u>10642612</u>,



PubMed:<u>17690104</u>, PubMed:<u>9405439</u>). Has a preference for sulfating keratan sulfate, but it also transfers sulfate to the unsulfated polymer (PubMed:<u>9405439</u>). 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:<u>10330415</u>). Catalyzes sulfation of N-acetyllactosamine (LacNAc) oligosaccharides with highest efficiency for sialylated LacNAc structures (PubMed:<u>10642612</u>).

Cellular Location

Golgi apparatus membrane; Single- pass type II membrane protein

Tissue Location

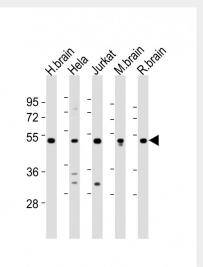
Widely expressed at low level. Expressed in brain and skeletal muscle. Expressed by high endothelial cells (HEVs) and leukocytes.

CHST1 Antibody (C-term) - Protocols

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

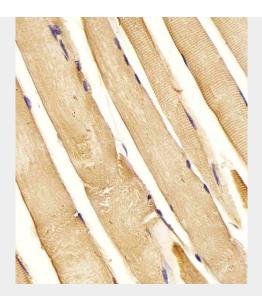
- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

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 μ g 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.