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CHST12 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21028b

Specification

CHST12 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9NRB3
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**48414**

CHST12 Antibody (N-term) - Additional Information

Gene ID 55501

Other Names
Carbohydrate sulfotransferase 12, Chondroitin 4-O-sulfotransferase 2, Chondroitin 4-sulfotransferase 2, C4ST-2, C4ST2, Sulfotransferase Hlo, CHST12

Target/Specificity
This CHST12 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 72-106 amino acids from the N-terminal region of human CHST12.

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
CHST12 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHST12 Antibody (N-term) - Protein Information

Name CHST12

Function Catalyzes the transfer of sulfate to position 4 of the N- acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the

predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Activity toward partially desulfated dermatan sulfate is however lower. Does not form 4, 6-di-O- sulfated GalNAc when chondroitin sulfate C is used as an acceptor.

Cellular Location
Golgi apparatus membrane; Single- pass type II membrane protein

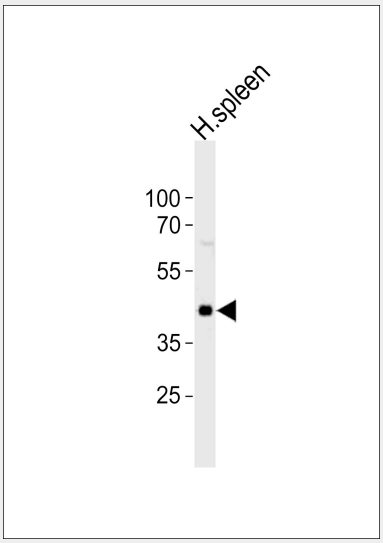
Tissue Location
Widely expressed. Expressed a high level in spinal chord, heart, spleen, thyroid, pituitary gland, adrenal gland, peripheral blood leukocytes, thymus, lung, small intestine, fetal kidney, fetal spleen and fetal lung.

CHST12 Antibody (N-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 Cytomety
- Cell Culture

CHST12 Antibody (N-term) - Images



Western blot analysis of lysate from human spleen tissue lysate, using CHST12 Antibody (N-term)(Cat. #AP21028b). AP21028b was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

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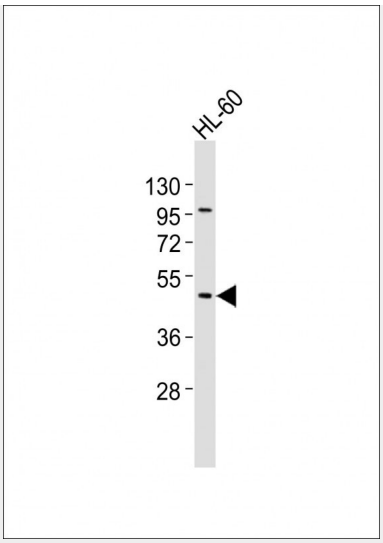
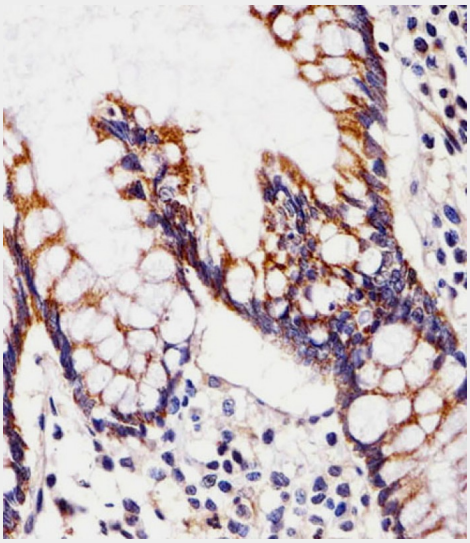


Anti-CHST12 Antibody (N-term) at 1:2000 dilution + HL-60 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AP21028b staining CHST12 in Human small intestine 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.

CHST12 Antibody (N-term) - Background

Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Activity toward partially desulfated dermatan sulfate is however lower. Does not form 4, 6-di-O-sulfated GalNAc when chondroitin sulfate C is used as an acceptor.

CHST12 Antibody (N-term) - References

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Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.W.,et al.Science 300:767-772(2003).