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CHST12 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21028b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NRB3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB51728
Calculated MW	48414

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~~1:1000 IHC-P~~1:100~500 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	CHST12 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

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.

References

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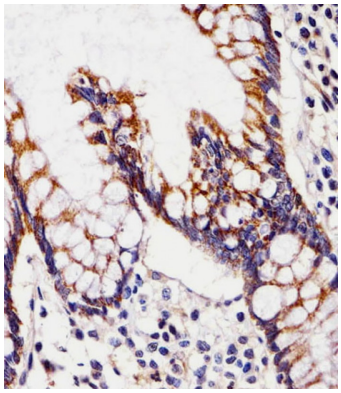
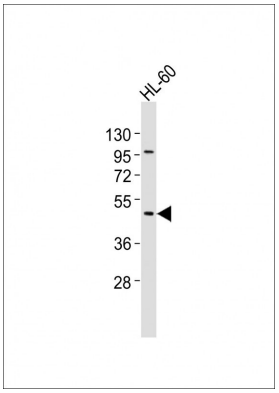
Xia G.,et al.Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.W.,et al.Science 300:767-772(2003).

Images



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.



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.