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[Marker Primary Antibody]

Rabbit Anti-CHST14/Biotin Conjugated antibody

Catalog Number: SL13933R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CHST14/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human CHST14
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Sheep)
Background:	background: This gene encodes a member of the HNK-1 family of sulfotransferases. The encoded protein transfers sulfate to the C-4 hydroxyl of N-acetylgalactosamine residues in dermatan sulfate. Mutations in this gene have been associated with adducted thumb-clubfoot syndrome.[provided by RefSeq, Mar 2010] **Function:** Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of dermatan sulfate. Transfers sulfate to the C-4 hydroxyl of beta1,4-linked GalNAc that is substituted with an alpha-linked iduronic acid (IdoUA) at the C-3 hydroxyl. Transfers sulfate more efficiently to GalNAc residues in -IdoUA-GalNAc-IdoUA- than in -GlcUA-GalNAc-GlcUA-sequences. Has preference for partially desulfated dermatan sulfate. Addition of sulfate to GalNAc may occur immediately after epimerization of GlcUA to IdoUA. **Subcellular Location:** Golgi apparatus membrane. **Tissue Specificity:** Widely expressed. Expressed at high level in pituitary

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	gland, placenta, uterus and thyroid. DISEASE: Defects in CHST14 are the cause of Ehlers-Danlos syndrome musculocontractural type (EDSMC) [MIM:601776]. It is a form of Ehlers-Danlos syndrome characterized by distinctive craniofacial dysmorphism, congenital contractures of thumbs and fingers, clubfeet, severe kyphoscoliosis, muscular hypotonia, hyperextensible thin skin with easy bruisability and atrophic scarring, wrinkled palms, joint hypermobility, and ocular involvement. **Similarity:** Belongs to the sulfotransferase 2 family. **Database links:** **Entrez Gene:** 113189 Human **Entrez Gene:** 72136 Mouse Omim: 608429 Human **SwissProt:** Q8NCH0 Human **SwissProt:** Q80V53 Mouse **Unigene:** 442449 Human **Unigene:** 278349 Mouse **Unigene:** 482404 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.