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[Marker Primary Antibody]

Rabbit Anti-CHST3/FITC Conjugated antibody

Catalog Number: SL13935R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-CHST3/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human CHST3
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:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse
Background:	background: This gene encodes an enzyme which catalyzes the sulfation of chondroitin, a proteoglycan found in the extracellular matrix and most cells which is involved in cell migration and differentiation. Mutations in this gene are associated with spondylepiphyseal dysplasia and humerospinal dysostosis. [provided by RefSeq, Mar 2009] **Function:** Catalyzes the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Can also sulfate Gal residues of keratan sulfate, another glycosaminoglycan, and the Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides. May play a role in the maintenance of naive T-lymphocytes in the spleen. **Subcellular Location:** Golgi apparatus membrane. **Post-translational modifications:** Widely expressed in adult tissues. Expressed in heart, placenta, skeletal muscle and pancreas. Also expressed in

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	various immune tissues such as spleen, lymph node, thymus and appendix. DISEASE: Defects in CHST3 are a cause of spondyloepiphyseal dysplasia with congenital joint dislocations (SEDC-JD) [MIM:143095]. A bone dysplasia clinically characterized by dislocation of the knees and/or hips at birth, clubfoot, elbow joint dysplasia with subluxation and limited extension, short stature, and progressive kyphosis developing in late childhood. The disorder is usually evident at birth, with short stature and multiple joint dislocations or subluxations that dominate the neonatal clinical and radiographic picture. During childhood, the dislocations improve, both spontaneously and with surgical treatment, and features of spondyloepiphyseal dysplasia become apparent, leading to arthritis of the hips and spine with intervertebral disk degeneration, rigid kyphoscoliosis, and trunk shortening by late childhood. **Similarity:** Belongs to the sulfotransferase 1 family. Gal/GlcNAc/GalNAc subfamily. **Database links:** **Entrez Gene:** 9469 Human **Entrez Gene:** 53374 Mouse Omim: 603799 Human **SwissProt:** Q7LGC8 Human **SwissProt:** O88199 Mouse **Unigene:** 158304 Human **Unigene:** 12866 Mouse Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.