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CHST3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10461a

Specification

CHST3 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q7LGC8
Other Accession	Q9QZL2, O88199, NP_004264.2
Reactivity	**Human, Mouse**
Predicted	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**54706**
Antigen Region	**25-54**

CHST3 Antibody (N-term) - Additional Information

Gene ID 9469

Other Names
Carbohydrate sulfotransferase 3, Chondroitin 6-O-sulfotransferase 1, C6ST-1, Chondroitin 6-sulfotransferase, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 0, GST-0, CHST3

Target/Specificity
This CHST3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 25-54 amino acids from the N-terminal region of human CHST3.

Dilution
WB~~1:1000
IHC-P~~1:50~100

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
CHST3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CHST3 Antibody (N-term) - Protein Information

Name CHST3

Function Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin (PubMed:9714738, PubMed:9883891, PubMed:15215498). Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices (PubMed:9714738). Catalyzes with a lower efficiency the sulfation of Gal residues of keratan sulfate, another glycosaminoglycan (PubMed:9714738). Can also catalyze the sulfation of the Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides (By similarity). May play a role in the maintenance of naive T-lymphocytes in the spleen (By similarity).

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

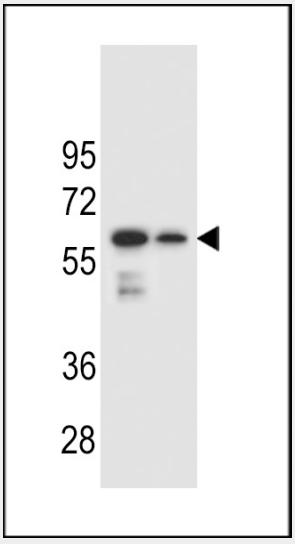
Tissue Location
Widely expressed in adult tissues. Expressed in heart, placenta, skeletal muscle and pancreas. Also expressed in various immune tissues such as spleen, lymph node, thymus and appendix

CHST3 Antibody (N-term) - Protocols

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

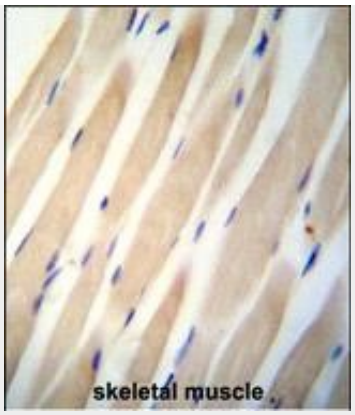
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CHST3 Antibody (N-term) - Images



CHST3 Antibody (N-term) (Cat. #AP10461a) western blot analysis in mouse spleen and lung tissue lysates (35ug/lane).This demonstrates the CHST3 antibody detected the CHST3 protein (arrow).

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CHST3 antibody(N-term) (Cat. #AP10461a) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CHST3 antibody(N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

CHST3 Antibody (N-term) - Background

CHST3 is 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.

CHST3 Antibody (N-term) - References

Unger, S., et al. Am. J. Med. Genet. A 152A (10), 2543-2549 (2010) :
Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009)
Tuysuz, B., et al. Clin. Genet. 75(4):375-383(2009)
Kitagawa, H., et al. J. Biol. Chem. 283(41):27438-27443(2008)
Hermanns, P., et al. Am. J. Hum. Genet. 82(6):1368-1374(2008)