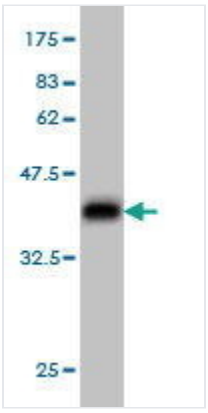
CHST11 Antibody – Mouse Monoclonal

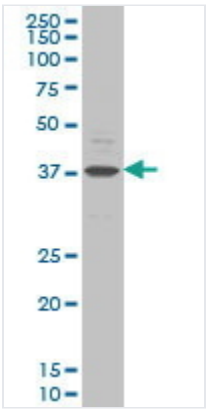
PRODUCT OVERVIEW

Product Name	CHST11, Monoclonal Antibody
Full Product Name	CHST11 (Carbohydrate Sulfotransferase 11, Chondroitin 4-O-sulfotransferase 1, C4ST1, C4ST-1, Chondroitin 4-sulfotransferase, C4ST, HSA269537)
Product Gene Name	anti-CHST11 antibody
Product Synonym Names	Anti -CHST11 (Carbohydrate Sulfotransferase 11, Chondroitin 4-O-sulfotransferase 1, C4ST1, C4ST-1, Chondroitin 4-sulfotransferase, C4ST, HSA269537)
Immunogen Sequence	RKGDDVKFEE FVAYLIDPHT QREEPFNEHW QTVYSLCHPC HIHYDLVGKY ETLEEDSNYV LQLAGVGSYL KFPTYAKSTR TTDEMTTEFF QNISSEHQTQ LYEVYKLD
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4F1
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Recognizes human CHST11.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	41,555 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (104850692..105155792). Location: 12q
OMIM	610128
3D Structure	ModBase 3D Structure for Q9NPF2
Immunogen	Partial recombinant corresponding to aa230-338 from human CHST11 (NP_060883) with GST tag. MW of the GST tag alone is 26kD.
Product Categories/Family for anti-CHST11 antibody	Antibodies; Abs to Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-CHST11 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-CHST11 antibody	Suitable for use in ELISA and Western Blot.
Related Product Information for anti-CHST11 antibody	Chondroitin 4-sulfotransferases, such as CHST11, catalyze the transfer of sulfate from 3-prime-phosphoadenosine 5-prime-phosphosulfate to position 4 of N-acetylgalactosamine residues in chondroitin (Yamauchi et al., 2000 [PubMed 10722746]).
Other Notes	Small volumes of anti-CHST11 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

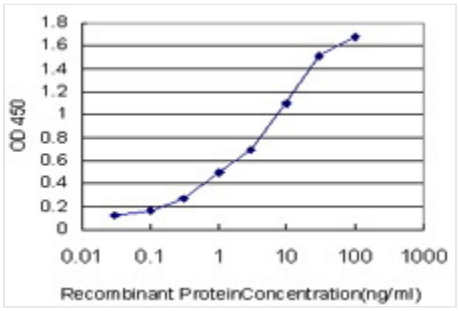
Searchable Terms for CHST11 purchase	MBS647199 is an antibody targeting CHST11. Also known as CHST11 (Carbohydrate Sulfotransferase 11, Chondroitin 4-O-sulfotransferase 1, C4ST1, C4ST-1, Chondroitin 4-sulfotransferase, C4ST, HSA269537). Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-CHST11 antibody
Western Blot detection against Immunogen (37.99kD).



Western Blot (WB) of anti-CHST11 antibody
CHST11 monoclonal antibody, Western Blot analysis of CHST11 expression in K-562.



Testing Data of anti-CHST11 antibody
Detection limit for recombinant GST tagged CHST11 is ~0.1ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHST11. It may not necessarily be applicable to this product.

NCBI GI #	291219907
NCBI GeneID	50515
NCBI Accession #	NP_001167453.1
UniProt Primary Accession #	Q9NPF2
UniProt Secondary Accession #	Q9NXY6; Q9NY36; A8K4F8
UniProt Related Accession #	Q9NPF2
GenBank Nucleotide #	NM_001173982.1
NCBI Official Full Name	carbohydrate sulfotransferase 11 isoform 2
NCBI Official Synonym Full Names	carbohydrate (chondroitin 4) sulfotransferase 11
NCBI Official Symbol	CHST11
NCBI Official Synonym Symbols	C4ST; C4ST1; C4ST-1; HSA269537
UniProt Protein Name	Carbohydrate sulfotransferase 11
UniProt Synonym Protein Names	Chondroitin 4-O-sulfotransferase 1; Chondroitin 4-sulfotransferase 1
Protein Family	Carbohydrate sulfotransferase

UniProt Gene Name	CHST11
UniProt Synonym Gene Names	C4S-1; C4ST-1; C4ST1
UniProt Entry Name	CHSTB_HUMAN
NCBI Protein Information	carbohydrate sulfotransferase 11; C4S-1; IgH/CHST11 fusion; chondroitin 4-O-sulfotransferase 1
NCBI Summary for CHST11	The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 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. A chromosomal translocation involving this gene and IgH, t(12;14)(q23;q32), has been reported in a patient with B-cell chronic lymphocytic leukemia. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for CHST11	Function: Catalyzes the transfer of sulfate to position 4 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 in desulfated dermatan sulfate. Preferentially sulfates in GlcA->GalNAc unit than in IdoA->GalNAc unit. Does not form 4, 6-di-O-sulfated GalNAc when chondroitin sulfate C is used as an acceptor. Catalytic activity: 3'-phosphoadenylyl sulfate + chondroitin = adenosine 3',5'-bisphosphate + chondroitin 4'-sulfate. Ref.1 Ref.2 Subcellular location: Golgi apparatus membrane; Single-pass type II membrane protein By similarity. Tissue specificity: Widely expressed. Highly expressed in spleen, thymus, bone marrow, peripheral blood leukocytes, lymph node, heart, brain, lung and placenta. Ref.1 Ref.2 Post-translational modification: N-glycosylated; required for activity and stability. Ref.9 Involvement in disease: A chromosomal aberration involving CHST11 is found in B-cell chronic lymphocytic leukemias. Translocation t(12;14)(q23;q32) with IgH. Ref.8 Sequence similarities: Belongs to the sulfotransferase 2 family. Biophysicochemical propertiesKinetic parameters:KM=0.5 µM for PAPS Ref.9KM=2.1 mM for chondroitin
Research Articles on CHST11	**1.** reduced C4ST-1 expression and chondroitin sulfation imbalance mediating the effects of oncogenic HRAS signaling in the pathogenesis of Costello syndrome.
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