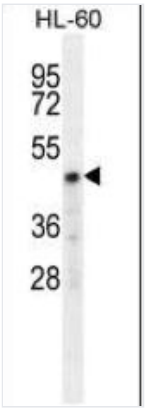
CHST2 Antibody – Rabbit Polyclonal

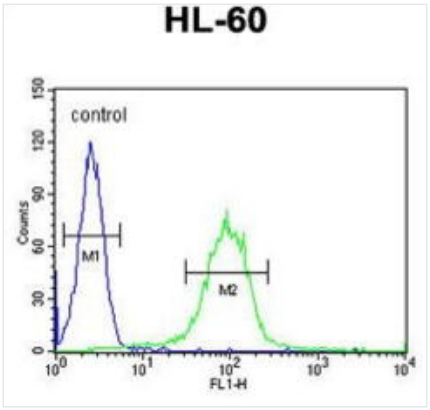
PRODUCT OVERVIEW

Product Name	CHST2, Polyclonal Antibody
Full Product Name	CHST2, ID (CHST2, GN6ST, Carbohydrate sulfotransferase 2, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2, N-acetylglucosamine 6-O-sulfotransferase 1) (PE)
Product Gene Name	anti-CHST2 antibody
Product Synonym Names	CHST2; GN6ST; Carbohydrate sulfotransferase 2; Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2; N-acetylglucosamine 6-O-sulfotransferase 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CHST2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	57,857 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (142838618..142842856). Location: 3q24
OMIM	603798
3D Structure	ModBase 3D Structure for Q9Y4C5
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 309-335 in the central region of human CHST2, UniProt Accession #NP_004258.2; Q9Y4C5; Q80WV3. Species sequence homology: mouse
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CHST2 antibody	Antibodies; Enzymes; Sulfotransferase
Applications Tested/Suitable for anti-CHST2 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-CHST2 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CHST2 antibody	N-acetylglucosamine-6-O-sulfotransferases, such as CHST2, catalyze the transfer of sulfate from 3-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) to position 6 of a nonreducing N-acetylglucosamine (GlcNAc) residue (Uchimura et al., 1998 [PubMed 9722682]).

Product References and Citations for anti-CHST2 antibody	1. Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). 2. Ross, C.J., et al. Nat. Genet. 41(12):1345-1349(2009). 3. Desko, M.M., et al. Glycobiology 19(10):1068-1077(2009). 4. Saito, A., et al. J. Hum. Genet. 54(6):317-323(2009). 5. Kanoh, A., et al. Glycoconj. J. 23 (5-6), 453-460 (2006).
Other Notes	Small volumes of anti-CHST2 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 CHST2 purchase	MBS6285952 is an antibody targeting CHST2. Also known as CHST2, ID (CHST2, GN6ST, Carbohydrate sulfotransferase 2, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2, N-acetylglucosamine 6-O-sulfotransferase 1) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CHST2 antibody
Western Blot analysis in HL-60 cell line lysates (35ug/lane) usingMBS6011669. This demonstrates that MBS6011669 detected the CHST2 protein (arrow).



Flow Cytometry (FC/FACS) of anti-CHST2 antibody
Flow Cytometric analysis of HL-60 cells (right histogram) using MBS6011669 compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHST2. It may not necessarily be applicable to this product.

NCBI GI #	27369497
NCBI GeneID	9435
NCBI Accession #	NP_004258.2
UniProt Primary Accession #	Q9Y4C5
UniProt Secondary Accession #	Q80WV3
UniProt Related Accession #	Q9Y4C5
GenBank Nucleotide #	NM_004267.4
NCBI Official Full Name	carbohydrate sulfotransferase 2
NCBI Official Synonym Full Names	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2
NCBI Official Symbol	CHST2
NCBI Official Synonym Symbols	C6ST; GST2; GST-2; Gn6ST-1; glcNAc6ST-1
UniProt Protein Name	Carbohydrate sulfotransferase 2
UniProt Synonym Protein Names	Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2; GST-2; N-acetylglucosamine 6-O-sulfotransferase 1
Protein Family	Carbohydrate sulfotransferase
UniProt Gene Name	CHST2
UniProt Synonym Gene Names	GN6ST; GST-2; GlcNAc6ST-1; Gn6ST-1

UniProt Entry Name	CHST2_HUMAN
NCBI Protein Information	carbohydrate sulfotransferase 2; N-acetylglucosamine 6-O-sulfotransferase 1; carbohydrate (chondroitin 6/keratan) sulfotransferase 2; galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2
NCBI Summary for CHST2	This locus encodes a sulfotransferase protein. The encoded enzyme catalyzes the sulfation of a nonreducing N-acetylglucosamine residue, and may play a role in biosynthesis of 6-sulfosialyl Lewis X antigen. [provided by RefSeq, Aug 2011]
UniProt Comments for CHST2	CHST2: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within keratan-like structures on N-linked glycans and within mucin-associated glycans that can ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of the SELL ligand sialyl 6-sulfo Lewis X and in lymphocyte homing to Peyer patches. Has no activity toward O-linked sugars. Its substrate specificity may be influenced by its subcellular location. Sulfates GlcNAc residues at terminal, non-reducing ends of oligosaccharide chains. Belongs to the sulfotransferase 1 family. Gal/GlcNAc/GalNAc subfamily. 2 isoforms of the human protein are produced by alternative initiation. Protein type: Membrane protein, integral; Transferase; EC 2.8.2.-; Glycan Metabolism - keratan sulfate biosynthesis Chromosomal Location of Human Ortholog: 3q24 Cellular Component: Golgi membrane; intrinsic to Golgi membrane; integral to membrane; trans-Golgi network Molecular Function: sulfotransferase activity; N-acetylglucosamine 6-O-sulfotransferase activity Biological Process: keratan sulfate metabolic process; sulfur metabolic process; glycosaminoglycan metabolic process; multicellular organismal development; carbohydrate metabolic process; keratan sulfate biosynthetic process; N-acetylglucosamine metabolic process; pathogenesis; inflammatory response
Research Articles on CHST2	**1.** Observational study of gene-disease association and gene-environment interaction. (HuGE Navigator)
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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