CHST2 Blocking Peptide – >85% Purity

PRODUCT OVERVIEW

Product Name	CHST2, Blocking Peptide
Full Product Name	CHST2 Blocking Peptide
Product Gene Name	CHST2 blocking peptide
Product Synonym Names	GN6ST; Carbohydrate sulfotransferase 2; Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 2; GST-2; N-acetylglucosamine 6-O-sulfotransferase 1; GlcNAc6ST-1; Gn6ST-1
Host	Synthetic
Species Reactivity	Human
Form/Format	Lyophilized powder
Purity/Purification	>85%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Antibody/Peptide Pairs	CHST2 peptide (MBS823575) is used for blocking the activity of CHST2 antibody (MBS820422)
Molecular Weight	52,787 Da
OMIM	603798
Quality Control	The quality of the peptide was evaluated by reversed-phase HPLC and by mass spectrometry.
Applications Tested/Suitable for CHST2 blocking peptide	Blocking (BL)
Application Notes for CHST2 blocking peptide	Blocking Peptide to the diluted primary antibody in a molar ratio of 10:1 (peptide to antibody) and incubate the mixture at 4 degree C for overnight or at room temperature for 2 hours.
Related Product Information for CHST2 blocking peptide	MBS823575 is a blocking peptide targeting CHST2. Reactive in Human. Host: Synthetic. The peptide is used to block Anti-CHST2 Antibody reactivity.
Other Notes	Small volumes of CHST2 blocking peptide 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.

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 #	Q2M370; Q9GZN5; Q9UED5; Q9Y6F2; D3DNG5
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; HEL-S-75; 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; GlcNAc6ST-1; Gn6ST-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; epididymis secretory protein Li 75; 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: Glycan Metabolism - keratan sulfate biosynthesis; Transferase; Membrane protein, integral; EC 2.8.2.- 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)
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