Chst2 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	Chst2, Blocking Peptide
Full Product Name	Chst2 Peptide - middle region
Product Gene Name	Chst2 blocking peptide
Product Synonym Gene Name	AI428561; AW121776; C130041E03Rik; Chts2; GST-2; GlcNAc6ST; Gn6st
Sequence	VFQLYSPAGS GGRNLTTLGI FGAATNKVVC SSPLCPAYRK EVVGLVDDRV
Species Reactivity	Mouse
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	Chst2 peptide (MBS3233168) is used for blocking the activity of Chst2 antibody (MBS3208205)
Molecular Weight	58kDa
Product Categories/Family for Chst2 blocking peptide	Peptide
Applications Tested/Suitable for Chst2 blocking peptide	Western Blot (WB)
Related Product Information for Chst2 blocking peptide	This is a synthetic peptide designed for use in combination with anti-Chst2 Antibody, made Target Description: Chst2 catalyzes 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 L-selectin ligands. L-selectin ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Chst2 participates in biosynthesis of L-selectin ligand sialyl 6-sulfo Lewis X and in lymphocyte homing to Peyer patches. It has no activity toward O-linked sugars. Its substrate specificity may be influenced by its subcellular location. It sulfates GlcNAc residues at terminal, non-reducing ends of oligosaccharide chains.
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.
Searchable Terms for Chst2 purchase	MBS3233168 is a blocking peptide targeting Chst2. Also known as Chst2 Peptide - middle region. Reactive in Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Chst2. It may not necessarily be applicable to this product.

NCBI GI #	157266319
NCBI GeneID	54371
NCBI Accession #	NP_061233
UniProt Primary Accession #	Q80WV3
UniProt Related Accession #	Q80WV3
GenBank Nucleotide #	NM_018763

NCBI Official Full Name	carbohydrate sulfotransferase 2
NCBI Official Synonym Full Names	carbohydrate sulfotransferase 2
NCBI Official Symbol	Chst2
NCBI Official Synonym Symbols	Chts2; GST-2; Gn6st; AI428561; AW121776; GlcNAc6ST; C130041E03Rik
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	Gst2; GST-2; GlcNAc6ST-1; Gn6st-1
NCBI Protein Information	carbohydrate sulfotransferase 2
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: EC 2.8.2.-; Glycan Metabolism - keratan sulfate biosynthesis; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 9|9 E3.3 Cellular Component: Golgi apparatus; Golgi membrane; integral component of membrane; membrane; trans-Golgi network Molecular Function: N-acetylglucosamine 6-O-sulfotransferase activity; sulfotransferase activity; transferase activity Biological Process: carbohydrate metabolic process; inflammatory response; N-acetylglucosamine metabolic process; sulfur compound metabolic process
Research Articles on Chst2	**1.** GlcNAc6ST role in Alzheimer's disease pathology in microglia.
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