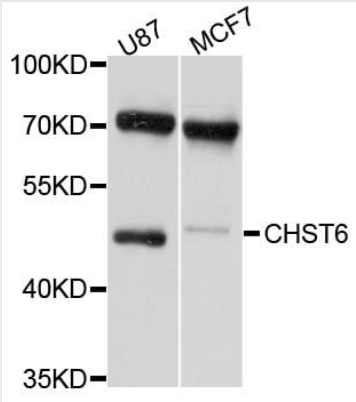
CHST6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHST6, Polyclonal Antibody
Full Product Name	CHST6 Polyclonal Antibody
Product Gene Name	anti-CHST6 antibody
Product Synonym Names	MCDC1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	44kDa
OMIM	AF219990 mRNA
3D Structure	ModBase 3D Structure for Q9GZX3
Immunogen	Recombinant protein of human CHST6
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Product Categories/Family for anti-CHST6 antibody	Primary antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CHST6 antibody	Western Blot (WB)
Application Notes for anti-CHST6 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-CHST6 antibody	The protein encoded by this gene is an enzyme that catalyzes the transfer of a sulfate group to the GlcNAc residues of keratan. Keratan sulfate helps maintain corneal transparency. Defects in this gene are a cause of macular corneal dystrophy (MCD).
Other Notes	Small volumes of anti-CHST6 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 CHST6 purchase	MBS9130740 is an antibody targeting CHST6. Also known as CHST6 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-CHST6 antibody
Western blot analysis of extracts of various cell lines, using CHST6 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 10s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHST6. It may not necessarily be applicable to this product.

NCBI GI #	61212105
NCBI GeneID	4166
NCBI Accession #	Q9GZX3.1
UniProt Primary Accession #	Q9GZX3
UniProt Secondary Accession #	D3DUK3
UniProt Related Accession #	Q9GZX3
NCBI Official Full Name	Carbohydrate sulfotransferase 6
NCBI Official Synonym Full Names	carbohydrate sulfotransferase 6
NCBI Official Symbol	CHST6
NCBI Official Synonym Symbols	MCDC1
UniProt Protein Name	Carbohydrate sulfotransferase 6
UniProt Synonym Protein Names	Corneal N-acetylglucosamine-6-O-sulfotransferase; C-GlcNAc6ST; hCGn6ST; Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-beta; GST4-beta; N-acetylglucosamine 6-O-sulfotransferase 5; GlcNAc6ST-5; Gn6st-5
Protein Family	Carbohydrate sulfotransferase
UniProt Gene Name	CHST6
UniProt Synonym Gene Names	C-GlcNAc6ST; hCGn6ST; GST4-beta; GlcNAc6ST-5; Gn6st-5
NCBI Protein Information	carbohydrate sulfotransferase 6

UniProt Comments for CHST6	CHST6: 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 of keratan. Mediates sulfation of keratan in cornea. Keratan sulfate plays a central role in maintaining corneal transparency. Acts on the non-reducing terminal GlcNAc of short and long carbohydrate substrates that have poly-N- acetyllactosamine structures. Defects in CHST6 are the cause of macular corneal dystrophy (MCD). MCD is an autosomal recessive disease characterized by corneal opacities. Onset occurs in the first decade, usually between ages 5 and 9. The disorder is progressive. Minute, gray, punctate opacities develop. Corneal sensitivity is usually reduced. Painful attacks with photophobia, foreign body sensations, and recurrent erosions occur in most patients. There are different types of MCD: MCD type I, in which there is a virtual absence of sulfated keratan sulfate (KS) in the serum and cornea, as determined by KS-specific antibodies; and MCD type II, in which the normal sulfated KS-antibody response is present in cornea and serum. MCD type I patients usually have a homozygous missense mutation, while MCD type II patients show a large deletion and replacement in the upstream region of CHST6. The only missense mutation for type II is Cys-50, which is heterozygous with a replacement in the upstream region on the other allele of CHST6. Belongs to the sulfotransferase 1 family. Gal/GlcNAc/GalNAc subfamily. Protein type: EC 2.8.2.-; Glycan Metabolism - keratan sulfate biosynthesis; Membrane protein, integral; Transferase Chromosomal Location of Human Ortholog: 16q23.1 Cellular Component: Golgi apparatus; Golgi membrane; integral to membrane Molecular Function: N-acetylglucosamine 6-O-sulfotransferase activity Biological Process: keratan sulfate biosynthetic process; N-acetylglucosamine metabolic process; sulfur metabolic process Disease: Macular Dystrophy, Corneal, 1
Research Articles on CHST6	**1.** E71Q mutation results in a non-conservative amino acid change in a highly conserved functional domain of the human CHST6 that is essential for enzyme activity as the cause of Macular corneal dystrophy.
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