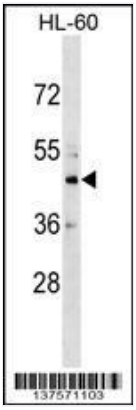
# CHST10 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CHST10, Polyclonal Antibody |
| **Full Product Name** | CHST10, CT (CHST10, Carbohydrate sulfotransferase 10, HNK-1 sulfotransferase) (APC) |
| **Product Gene Name** | anti-CHST10 antibody |
| **Product Synonym Names** | CHST10; Carbohydrate sulfotransferase 10; HNK-1 sulfotransferase |
| **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 Allophycocyanin (APC). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **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: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 42,207 Da |
| **Chromosome Location** | Chromosome: 2; NC_000002.11 (101008322..101034130, complement). Location: 2q11.2 |
| **OMIM** | 606376 |
| **3D Structure** | ModBase 3D Structure for O43529 |
| **Immunogen** | CHST10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 207-236 amino acids from the C-terminal region of human CHST10. |
| **Conjugate** | APC |
| **Note** | Preservative Free |
| **Special Handling** | Light sensitive |
| **Product Categories/Family for anti-CHST10 antibody** | Antibodies; Enzymes; Sulfotransferase |
| **Applications Tested/Suitable for anti-CHST10 antibody** | Western Blot (WB), FLISA |
| **Application Notes for anti-CHST10 antibody** | WB: 1:100-500<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CHST10 antibody** | Cell surface carbohydrates modulate a variety of cellular functions and are typically synthesized in a stepwise manner. HNK1ST plays a role in the biosynthesis of HNK1 (see MIM 151290), a neuronally expressed carbohydrate that contains a sulfoglucuronyl residue. |
| **Product References and Citations for anti-CHST10 antibody** | Zhao, X., et al. Cancer Res. 69(12):5218-5225(2009). Kang, H.G., et al. J. Biol. Chem. 277(38):34766-34772(2002). Ong, E., et al. J. Biol. Chem. 274(36):25608-25612(1999). Ong, E., et al. J. Biol. Chem. 273(9):5190-5195(1998). |

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| **Other Notes** | Small volumes of anti-CHST10 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 CHST10 purchase** | MBS6285910 is an antibody targeting CHST10. Also known as CHST10, CT (CHST10, Carbohydrate sulfotransferase 10, HNK-1 sulfotransferase) (APC). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CHST10 antibody**
CHST10 Antibody (C-term) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the CHST10 antibody detected the CHST10 protein (arrow).

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHST10. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4758540 |
| **NCBI GeneID** | 9486 |
| **NCBI Accession #** | NP_004845.1 |
| **UniProt Primary Accession #** | O43529 |
| **UniProt Secondary Accession #** | Q53T18 |
| **UniProt Related Accession #** | O43529 |
| **GenBank Nucleotide #** | NM_004854.4 |
| **NCBI Official Full Name** | carbohydrate sulfotransferase 10 |
| **NCBI Official Synonym Full Names** | carbohydrate sulfotransferase 10 |
| **NCBI Official Symbol** | CHST10 |
| **NCBI Official Synonym Symbols** | HNK1ST; HNK-1ST |
| **UniProt Protein Name** | Carbohydrate sulfotransferase 10 |
| **UniProt Synonym Protein Names** | HNK-1 sulfotransferase |
| **Protein Family** | Carbohydrate sulfotransferase |
| **UniProt Gene Name** | CHST10 |
| **UniProt Synonym Gene Names** | HNK-1ST; HNK1ST; HuHNK-1ST |
| **UniProt Entry Name** | CHSTA_HUMAN |
| **NCBI Protein Information** | carbohydrate sulfotransferase 10; huHNK-1ST; HNK-1 sulfotransferase |

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| **NCBI Summary for CHST10** | This protein encoded by this gene transfers sulfate to the C-3 hydroxyl of terminal glucuronic acid of protein- and lipid-linked oligosaccharides. This protein was first identified as a sulfotransferase that acts on the human natural killer-1 (HNK-1) glycan; HNK-1 is a carbohydrate involved in neurodevelopment and synaptic plasticity.[provided by RefSeq, Feb 2011] |
| **UniProt Comments for CHST10** | HNK1ST: Catalyzes the transfer of sulfate to position 3 of terminal glucuronic acid of both protein- and lipid-linked oligosaccharides. Participates in biosynthesis of HNK-1 carbohydrate structure, a sulfated glucuronyl-lactosaminyl residue carried by many neural recognition molecules, which is involved in cell interactions during ontogenetic development and in synaptic plasticity in the adult. May be indirectly involved in synapse plasticity of the hippocampus, via its role in HNK-1 biosynthesis. Belongs to the sulfotransferase 2 family.<br><br>Protein type: Transferase; EC 2.8.2.-; Membrane protein, integral<br><br>Chromosomal Location of Human Ortholog: 2q11.2<br><br>Cellular Component: Golgi membrane; Golgi apparatus; membrane; integral to membrane<br><br>Molecular Function: sulfotransferase activity; HNK-1 sulfotransferase activity<br><br>Biological Process: long-term memory; learning; cell adhesion; carbohydrate biosynthetic process |
| **Research Articles on CHST10** | **1.** novel role for HNK-1ST as a tumor suppressor controlling the functional glycans on alpha-DG and the importance of sulfate transfer in the glycosylation of alpha-DG. |
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