# CHST12 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CHST12, Polyclonal Antibody |
| **Full Product Name** | CHST12 (Carbohydrate Sulfotransferase 12, Chondroitin 4-O-Sulfotransferase 2, Chondroitin 4-Sulfotransferase 2, C4ST-2, C4ST2, Sulfotransferase Hlo, CHST12) (MaxLight 750) |
| **Product Gene Name** | anti-CHST12 antibody |
| **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 MaxLight750. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human CHST12. Species Crossreactivity: human |
| **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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 48,414 Da |
| **3D Structure** | ModBase 3D Structure for Q9NRB3 |
| **Immunogen** | KLH conjugated synthetic peptide corresponding to aa72-106 at the N-terminal region of human CHST12. |
| **Conjugate** | MaxLight750 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CHST12 antibody** | Antibodies; Enzymes; Sulfotransferase |
| **Applications Tested/Suitable for anti-CHST12 antibody** | Western Blot (WB), Immunohistochemistry (IHC) Paraffin |
| **Application Notes for anti-CHST12 antibody** | WB: 1:2000<br>IHC-P: 1:25<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CHST12 antibody** | MBS6455137 is an antibody targeting CHST12. Also known as CHST12 (Carbohydrate Sulfotransferase 12, Chondroitin 4-O-Sulfotransferase 2, Chondroitin 4-Sulfotransferase 2, C4ST-2, C4ST2, Sulfotransferase Hlo, CHST12) (MaxLight 750). Reactive in Human. Host: Rabbit. |
| **Product References and Citations for anti-CHST12 antibody** | Hiraoka N., et al. J. Biol. Chem. 275:20188-20196(2000). Xia G., et al. Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases. Clark H.F., et al. Genome Res. 13:2265-2270(2003). Ota T., et al. Nat. Genet. 36:40-45(2004). Scherer S.W., et al. Science 300:767-772(2003). |
| **Other Notes** | Small volumes of anti-CHST12 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHST12. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 63102463 |
| **NCBI GeneID** | 55501 |
| **NCBI Accession #** | AAH95492.1 |
| **UniProt Primary Accession #** | Q9NRB3 |
| **UniProt Secondary Accession #** | Q502W3; Q9NXY7; A4D1Z9 |
| **UniProt Related Accession #** | Q9NRB3 |
| **NCBI Official Full Name** | CHST12 protein |
| **NCBI Official Synonym Full Names** | carbohydrate sulfotransferase 12 |
| **NCBI Official Symbol** | CHST12 |
| **NCBI Official Synonym Symbols** | C4S-2; C4ST2; C4ST-2 |
| **UniProt Protein Name** | Carbohydrate sulfotransferase 12 |
| **UniProt Synonym Protein Names** | Chondroitin 4-O-sulfotransferase 2; Chondroitin 4-sulfotransferase 2; C4ST-2; C4ST2; Sulfotransferase Hlo |
| **Protein Family** | Carbohydrate sulfotransferase |
| **UniProt Gene Name** | CHST12 |
| **UniProt Synonym Gene Names** | C4ST-2; C4ST2 |
| **NCBI Protein Information** | carbohydrate sulfotransferase 12 |
| **NCBI Summary for CHST12** | The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. Alternatively spliced transcript variants differing only in their 5' UTRs have been found for this gene. [provided by RefSeq, Aug 2011] |
| **UniProt Comments for CHST12** | Catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage and is distributed on the surfaces of many cells and extracellular matrices. Activity toward partially desulfated dermatan sulfate is however lower. Does not form 4, 6-di-O-sulfated GalNAc when chondroitin sulfate C is used as an acceptor. |
| **Research Articles on CHST12** | **1.** These results have demonstrated that CHST11 and CHST13 negatively modulate metastasis and drug resistance of HCC cells probably via oncogenic MAPK signal pathway. |
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