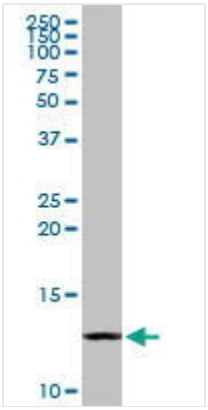
# CSTB Antibody – Rabbit Polyclonal

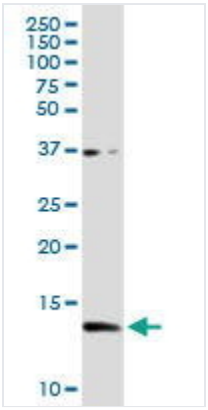
## PRODUCT OVERVIEW

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| **Product Name** | CSTB, Polyclonal Antibody |
| **Full Product Name** | CSTB (Cystatin-B, CPI-B, Stefin B, CST6, STFB, Liver Thiol Proteinase Inhibitor, Stefin-B) (AP) |
| **Product Gene Name** | anti-CSTB 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 Alkaline Phosphatase (AP). |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human CSTB. |
| **Preparation and Storage** | Store product at 4 degree C. 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. For maximum recovery of product, centrifuge the original vial prior to removing the cap. |
| **Molecular Weight** | 11,140 Da |
| **Chromosome Location** | Chromosome: 21; NC_000021.8 (45193546..45196256, complement). Location: 21q22.3 |
| **OMIM** | 254800 |
| **3D Structure** | ModBase 3D Structure for P04080 |
| **Immunogen** | Full length human CSTB, aa1-98 (NP_000091.1). |
| **Immunogen Sequence** | MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFIKVHVGDEDFVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTYF |
| **Conjugate** | AP |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CSTB antibody** | Antibodies; Protease Inhibitors |
| **Applications Tested/Suitable for anti-CSTB antibody** | Western Blot (WB) |
| **Application Notes for anti-CSTB antibody** | Applications are based on unconjugated antibody. |

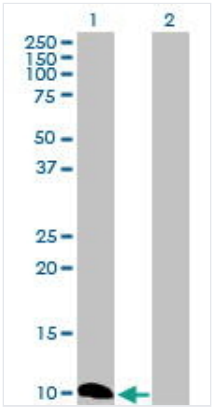
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| **Related Product Information for anti-CSTB antibody** | This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. |
| **Other Notes** | Small volumes of anti-CSTB antibody vial(s) may occasionally 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 CSTB purchase** | MBS6374929 is an antibody targeting CSTB. Also known as CSTB (Cystatin-B, CPI-B, Stefin B, CST6, STFB, Liver Thiol Proteinase Inhibitor, Stefin-B) (AP). Reactive in Human. Host: Rabbit. |




**Western Blot (WB) of anti-CSTB antibody**
CSTB rabbit polyclonal antibody. Western Blot analysis of CSTB expression in human placenta.




**Western Blot (WB) of anti-CSTB antibody**
CSTB rabbit polyclonal antibody. Western Blot analysis of CSTB expression in A-431.




**Western Blot (WB) of anti-CSTB antibody**
Western Blot analysis of CSTB expression in transfected 293T cell line by CSTB polyclonal antibody. Lane 1: CSTB transfected lysate (11.1kD). Lane 2: Non-transfected lysate.

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 4503117 |
| **NCBI GeneID** | 1476 |
| **NCBI Accession #** | NP_000091.1 |
| **UniProt Primary Accession #** | P04080 |
| **UniProt Related Accession #** | P04080 |
| **GenBank Nucleotide #** | NM_000100.2 |
| **NCBI Official Full Name** | cystatin-B |

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| **NCBI Official Synonym Full Names** | cystatin B (stefin B) |
| **NCBI Official Symbol** | CSTB |
| **NCBI Official Synonym Symbols** | PME; ULD; CST6; EPM1; STFB; EPM1A |
| **UniProt Protein Name** | Cystatin-B |
| **UniProt Synonym Protein Names** | CPI-B; Liver thiol proteinase inhibitor; Stefin-B |
| **Protein Family** | Cystatin |
| **UniProt Gene Name** | CSTB |
| **UniProt Synonym Gene Names** | CST6; STFB |
| **UniProt Entry Name** | CYTB_HUMAN |
| **NCBI Protein Information** | cystatin-B; CPI-B; liver thiol proteinase inhibitor |
| **NCBI Summary for CSTB** | The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins l, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CSTB** | CSTB: This is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. Defects in CSTB are the cause of progressive myoclonic epilepsy type 1 (EPM1). EPM1 is an autosomal recessive disorder characterized by severe, stimulus-sensitive myoclonus and tonic-clonic seizures. The onset, occurring between 6 and 13 years of age, is characterized by convulsions. Myoclonus begins 1 to 5 years later. The twitchings occur predominantly in the proximal muscles of the extremities and are bilaterally symmetrical, although asynchronous. At first small, they become late in the clinical course so violent that the victim is thrown to the floor. Mental deterioration and eventually dementia develop. Belongs to the cystatin family.<br><br>Protein type: Inhibitor<br><br>Chromosomal Location of Human Ortholog: 21q22.3<br><br>Cellular Component: extracellular space; cytoplasm; nucleolus<br><br>Molecular Function: protease binding; endopeptidase inhibitor activity; cysteine protease inhibitor activity<br><br>Biological Process: negative regulation of proteolysis; regulation of apoptosis; adult locomotory behavior; negative regulation of peptidase activity<br><br>Disease: Myoclonic Epilepsy Of Unverricht And Lundborg |
| **Research Articles on CSTB** | **1.** Skull thickening and an increased prevalence of abnormal findings in skeletal radiographs of patients with EPM1 suggest that this condition is connected to defective cystatin B function. |
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