CSTB Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CSTB, Monoclonal Antibody
Full Product Name	CSTB (Cystatin-B, CPI-B, Stefin B, CST6, STFB, Liver Thiol Proteinase Inhibitor, Stefin-B) (MaxLight 750)
Product Gene Name	anti-CSTB antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	M2-F1
Host	Mouse
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 CSTB.
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.
OMIM	254800
3D Structure	ModBase 3D Structure for P04080
Immunogen	Full length recombinant corresponding to aa1-98 from human CSTB (AAH03370.1) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFIKVHVGDEDFVHLRVFQSLPHENKPLTLSNYQTNKAKHDELTYF
Conjugate	MaxLight750
Product Categories/Family for anti-CSTB antibody	Antibodies; Protease Inhibitors
Applications Tested/Suitable for anti-CSTB antibody	FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-CSTB antibody	IF: 10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-CSTB antibody	MBS6232345 is an antibody targeting CSTB. Also known as CSTB (Cystatin-B, CPI-B, Stefin B, CST6, STFB, Liver Thiol Proteinase Inhibitor, Stefin-B) (MaxLight 750). Reactive in Human. Host: Mouse.

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.

ADDITIONAL DETAILS

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

NCBI GI #	13097209
NCBI GeneID	1476
NCBI Accession #	BC003370.1
NCBI Related Accession #	AAH03370.1
UniProt Primary Accession #	P04080
UniProt Related Accession #	P04080
NCBI Official Full Name	Homo sapiens cystatin B (stefin B), mRNA
NCBI Official Synonym Full Names	cystatin B
NCBI Official Symbol	CSTB
NCBI Official Synonym Symbols	PME; ULD; CST6; EPM1; STFB; CPI-B; 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
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). One type of mutation responsible for EPM1 is the expansion in the promoter region of this gene of a CCCCGCCCCGCG repeat from 2-3 copies to 30-78 copies. [provided by RefSeq, Jul 2016]

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. Protein type: Inhibitor Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: extracellular space; cytoplasm; nucleolus Molecular Function: protease binding; endopeptidase inhibitor activity; cysteine protease inhibitor activity Biological Process: negative regulation of proteolysis; regulation of apoptosis; adult locomotory behavior; negative regulation of peptidase activity Disease: Myoclonic Epilepsy Of Unverricht And Lundborg
Research Articles on CSTB	**1.** CSTB was overexpressed and miR1433p was downregulated in ovarian malignant tumors. Mature miR1433p directly bound CSTB 3'UTR, leading to a decrease in CSTB expression in OC cells, which was regulated by TGFbeta1.
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