

Rabbit anti-Human Cystatin B Polyclonal Antibody | anti-CSTB antibody

Anti-Cystatin B Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255970	Rabbit	Human	Immunoprecipitation, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Cystatin B; Polyclonal Antibody; Anti-Cystatin B Antibody; Rabbit Polyclonal; Cystatin B Antibody; Rabbit PAb; Antigen Affinity Purified; cystatin B (stefin B); Anti-CST6 Antibody; Anti-EPM1 Antibody; Anti-EPM1A Antibody; Anti-PME Antibody; Anti-STFB Antibody; Anti-ULD Antibody; anti-CSTB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Cystatin B
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; PBS, pH7.0 with 0.03% Proclin300
Applicable Applications for anti-CSTB antibody	IP (Immunoprecipitation), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived Human Cystatin B fragment
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with E Coli-derived Human Cystatin B fragment, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

CSTB was immunoprecipitated using: Lane A: 0.5 mg U87-MG Whole Cell Lysate 4 uL anti-CSTB rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-CSTB rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 11 kDa. Observed band size: 11 kDa.



IHC (Immunohistochemistry)

Immunochemical staining of human CSTB in human urinary bladder with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)

Immunochemical staining of human CSTB in human esophagus with rabbit polyclonal antibody at 1:5000 dilution, formalin-fixed paraffin embedded sections.



WB (Western Blot)

Anti-CSTB rabbit polyclonal antibody at 1:500 dilution Lane A: U87-MG Whole Cell Lysate Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 11 kDa Observed band size: 11 kDa (We are unsure as to the identity of these extra bands).

ADDITIONAL INFORMATION

Related Product Information for anti-CSTB antibody

Cystatin-B, also known as CPI-B, Liver thiol proteinase inhibitor, Stefin-B, CSTB and CST6, is a cytoplasm and nucleus protein which belongs to the cystatin family. Cystatin-B/CSTB is an intracellular thiol proteinase inhibitor. Tightly binding reversible inhibitor of cathepsins L, H and B. Cystatin-B/CSTB is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins L, H and B. Cystatin-B/CSTB is also thought to play a role in protecting against the proteases leaking from lysosomes. Defects in Cystatin-B/CSTB are the cause of progressive myoclonic epilepsy type 1 (EPM1) which is an autosomal recessive disorder characterized by severe, stimulus-sensitive myoclonus and tonic-clonic seizures. The cystatins are a family of cysteine protease inhibitors with homology to chicken cystatin. Cystatins are physiological inhibitors of cysteine proteinases which are widely distributed in human tissues and fluids. Cystatins typically comprise about 115 amino acids, are largely acidic, contain four conserved cysteine residues known to form two disulfide bonds. Cystatins may be glycosylated and/or phosphorylated, with similarity to fetuins, kininogens, stefins, histidine-rich glycoproteins and cystatin-related proteins. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired inhibitory activity. Cystatins mainly inhibit peptidases belonging to peptidase families C1 (papain family) and C13 (legumain family).

References

Ritonja A., et al., (1985), Amino acid sequence of the intracellular cysteine proteinase inhibitor cystatin B from human liver. Biochem. Biophys. Res. Commun. 131:1187-1192. Pennacchio L.A., et al., (1996), Mutations in the gene encoding cystatin B in progressive myoclonus epilepsy (EPM1). Science 271:1731-1734. Hattori M., et al., (2000), The DNA sequence of human chromosome 21. Nature 405:311-319.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cystatin-b-antibody-immunoprecipitation-immunohistochemistry-western-blot-elisa/255970>