

Human Cystatin B ELISA Kit | CSTB elisa kit

Human Cystatin B PicoKine ELISA Kit

CATALOG #
AAA45882

REACTIVITY
Human

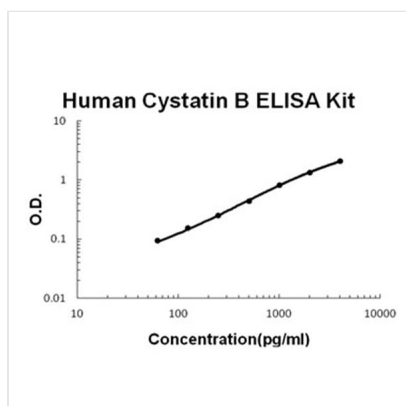
PRODUCT SYNONYMS

Cystatin B; Human Cystatin B PicoKine ELISA Kit; Cystatin-B; cystatin B (stefin B); CHROW21; CPI B; CPI-B; CST6; CSTB; CYTB; CYTB_HUMAN; EPM1; EPM1A; Liver thiol proteinase inhibitor; PME; Stefin-B; STFB; ULD; CSTB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Cystatin B
Sequence Length	98
Samples	Cell culture supernates, serum, plasma (heparin, EDTA), saliva, urine and human milk
Assay Type	Sandwich
Detection Range	62.5pg/ml-4000pg/ml
Sensitivity	< 10pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay) Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays) Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

Human Cystatin B PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CSTB elisa kit	Principle of the assay: human Cystatin B ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Cystatin B has been precoated onto 96-well plates. Standards(E.coli, M2-F98) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cystatin B is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Cystatin B amount of sample captured in plate. Background: Cystatin B(CSTB), also called STFB, is a small protein that is a member of the superfamily of cysteine protease inhibitors. It has been isolated from human spleen and liver and its amino acid sequence has been fully determined. The cystatin B gene is located on 21q22.3. It is widely distributed and is localized mostly intracellularly, but has been found extracellularly. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins I, h and b. Its role is thought to be as a protector against the proteinases leaking from lysosomes. A cystatin B multiprotein complex might have a specific cerebellar function, and that the loss of this function might contribute to the etiopathogenesis of EPM1. Upon differentiation to myotubes, CSTB becomes excluded from the nucleus and lysosomes, suggesting that the subcellular distribution of CSTB is dependent on the differentiation status of the cell.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1706278
NCBI GeneID	1476
UniProt Accession #	P04080
Molecular Weight	11,140 Da
NCBI Official Full Name	Cystatin-B
NCBI Official Synonym Full Names	cystatin B (stefin B)
NCBI Official Symbol	CSTB
NCBI Official Synonym Symbols	PME; ULD; CST6; EPM1; STFB; EPM1A
NCBI Protein Information	cystatin-B; CPI-B; liver thiol proteinase inhibitor
UniProt Protein Name	Cystatin-B
UniProt Gene Name	CSTB
UniProt Synonym Gene Names	CST6; STFB
UniProt Entry Name	CYTB_HUMAN

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.