

Human Cathepsin B ELISA Kit | CTSB elisa kit

CATHEPSIN B Human ELISA Kit

CATALOG # AAA58990	REACTIVITY Human	APPLICATIONS ELISA
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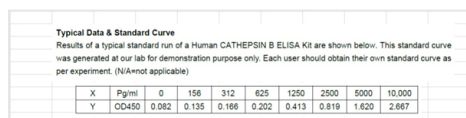
PRODUCT SYNONYMS

Cathepsin B; CATHEPSIN B Human ELISA Kit; Human Cathepsin B; CTSB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Human serum, plasma, body fluids, tissue lysates or cell culture supernates
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 5 pg/ml
Applicable Applications for CTSB elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSB elisa kit

Background: Cathepsin B is an enzymatic protein belonging to the peptidase (or protease) families. In humans, it is coded by the CTSB gene. This protein is a lysosomal cysteine protease composed of a dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor. It can degrade beta-amyloid precursor protein into harmless fragments. Thus, it is conceivable cathepsin B may play a pivotal role in the natural defense against Alzheimer's disease. Overexpression of cathepsin B has been associated with esophageal adenocarcinoma and other tumors.

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Cathepsin B polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- Cathepsin B polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 Cathepsin B amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Cathepsin B can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	27806671
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NCBI GeneID	281105
NCBI Accession #	NP_776456.1
NCBI GenBank Nucleotide #	NM_174031.2
UniProt Accession #	P07688 ; Q3ZC03
Molecular Weight	36,661 Da
NCBI Official Full Name	cathepsin B
NCBI Official Synonym Full Names	cathepsin B<
NCBI Official Symbol	CTSB
NCBI Protein Information	cathepsin B; BCSB
UniProt Protein Name	Cathepsin B
UniProt Gene Name	CTSB
UniProt Entry Name	CATB_BOVIN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/cathepsin-b/58990>