

Rat Cathepsin B ELISA Kit | Ctsb elisa kit

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CATALOG #
AAA97897

REACTIVITY
Rat

PRODUCT SYNONYMS

Cathepsin B; Rat Cathepsin B ELISA Kit; Ctsb; Ctsb elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CTNI. No significant cross-reactivity or interference between CTNI and analogues was observed.
Sequence Length	339
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CTNI were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CTNI were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a Ctsb ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.066	0.125	0.202	0.312	0.607	0.965	1.794	2.216

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for Ctsb elisa kit

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	22538437
NCBI GeneID	1508
NCBI Accession #	NP_680093.1
NCBI GenBank Nucleotide #	NM_147783.3
Molecular Weight	37,822 Da
NCBI Official Full Name	cathepsin B isoform 1 preproprotein
NCBI Official Synonym Full Names	cathepsin B
NCBI Official Symbol	CTSB
NCBI Official Synonym Symbols	APPS; CPSB
NCBI Protein Information	cathepsin B
UniProt Protein Name	Cathepsin B
UniProt Gene Name	CTSB
UniProt Synonym Gene Names	CPSB; APPS
UniProt Entry Name	CATB_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.

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Online datasheet: <https://stage.aaabiotech.com/ctsb-rat-elisa-kits/cathepsin-b/97897>