

Rat cathepsin B (CTSB) ELISA Kit | CTSB elisa kit

Rat cathepsin B (CTSB) ELISA Kit

CATALOG #
AAA246775

REACTIVITY
Rat

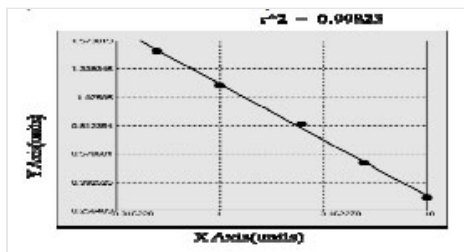
PRODUCT SYNONYMS

cathepsin B (CTSB); Rat cathepsin B (CTSB) ELISA Kit; CTSB elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Assay Type	Competitive
Detection Range	1.0-25ng/mL
Sensitivity	0.1ng/ml
Intended Uses	This CTSB ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CTSB. This ELISA kit for research use only, not for therapeutic applications!
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSB elisa kit

Principle of the Assay: CTSB ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CTSB antibody and an CTSB-HRP conjugate. The assay sample and buffer are incubated together with CTSB-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the CTSB concentration since CTSB from samples and CTSB-HRP conjugate compete for the anti-CTSB antibody binding site. Since the number of sites is limited, as more sites are occupied by CTSB from the sample, fewer sites are left to bind CTSB-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CTSB concentration in each sample is interpolated from this standard curve.

Product Categories/Family for CTSB elisa kit

Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	27806671
NCBI GeneID	281105
NCBI Accession #	NP_776456.1
NCBI GenBank Nucleotide #	NM_174031.2
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.

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Online datasheet: <https://stage.aaabiotech.com/rat-elisa-kits/cathepsin-b-ctsb/246775>