

Rat Cathepsin Z (CTSZ) ELISA Kit | CTSZ elisa kit

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CATALOG #
AAA245600

REACTIVITY
Rat

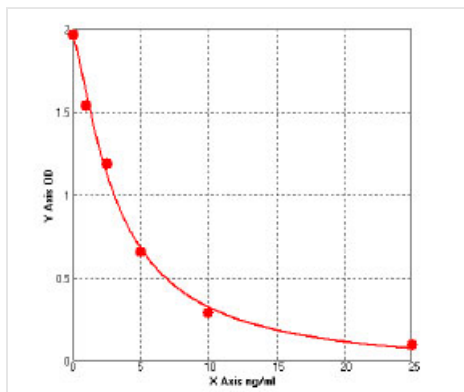
PRODUCT SYNONYMS

Cathepsin Z (CTSZ); Rat Cathepsin Z (CTSZ) ELISA Kit; CTSZ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CTSZ. No significant cross-reactivity or interference between CTSZ and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CTSZ and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Sensitivity	0.1 ng/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSZ elisa kit	Principle of the Assay: CTSZ ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CTSZ antibody and an CTSZ-HRP conjugate. The assay sample and buffer are incubated together with CTSZ-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 CTSZ concentration since CTSZ from samples and CTSZ-HRP conjugate compete for the anti-CTSZ antibody binding site. Since the number of sites is limited, as more sites are occupied by CTSZ from the sample, fewer sites are left to bind CTSZ-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CTSZ concentration in each sample is interpolated from this standard curve. Intended Uses: This CTSZ ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat CTSZ. This ELISA kit for research use only, not for therapeutic or test applications!
Product Categories/Family for CTSZ elisa kit	Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	22538442
NCBI GeneID	1522
NCBI Accession #	NP_001327.2
NCBI GenBank Nucleotide #	NM_001336.3
Molecular Weight	33,868 Da
NCBI Official Full Name	cathepsin Z preproprotein
NCBI Official Synonym Full Names	cathepsin Z
NCBI Official Symbol	CTSZ
NCBI Official Synonym Symbols	CTSX
NCBI Protein Information	cathepsin Z; cathepsin P; cathepsin X; cathepsin Y; cathepsin B2; cathepsin IV; cathepsin Z1; preprocathepsin P; carboxypeptidase LB; lysosomal carboxypeptidase B; cysteine-type carboxypeptidase
UniProt Protein Name	Cathepsin Z
UniProt Gene Name	CTSZ
UniProt Entry Name	CATZ_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/rat-elisa-kits/cathepsin-z-ctsz/245600>