

Human Cathepsin Z ELISA Kit | CTSZ elisa kit

Human Cathepsin Z ELISA Kit PicoKine

CATALOG # AAA126724	REACTIVITY Human	APPLICATIONS ELISA
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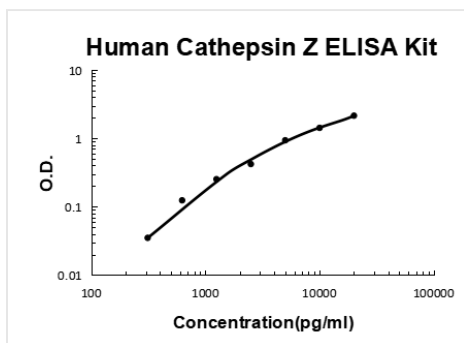
PRODUCT SYNONYMS

Cathepsin Z; Human Cathepsin Z ELISA Kit PicoKine; CTSZ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CTSZ
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Applicable Applications for CTSZ elisa kit	ELISA
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 across 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 (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human Cathepsin Z PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTSZ elisa kit	Background: Cathepsin Z, also called cathepsin X or cathepsin P, is a protein that in humans is encoded by the CTSZ gene. The protein encoded by this gene is a lysosomal cysteine proteinase and member of the peptidase C1 family. It exhibits both carboxy-monopeptidase and carboxy-dipeptidase activities. The encoded protein has also been known as cathepsin X and cathepsin P. This gene is expressed ubiquitously in cancer cell lines and primary tumors and, like other members of this family, may be involved in tumorigenesis. Principle of the Assay: The Picokine™ Human CTSZ Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CTSZ with a 96-well strip plate that is pre-coated with antibody specific for CTSZ. The detection antibody is a biotinylated antibody specific for CTSZ. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Human CTSZ protein as standards. To measure Human CTSZ, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CTSZ in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CTSZ in the sample.
Product Categories/Family for CTSZ elisa kit	PicoKine ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	22538442
NCBI GeneID	1522
NCBI Accession #	NP_001327.2
NCBI GenBank Nucleotide #	NM_001336.3
UniProt Accession #	Q9UBR2; O75331; Q9UQV5; Q9UQV6; B2RC40
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://www.aaabiotech.com/ctsz-human-elisa-kits/cathepsin-z/126724>