

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

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CATALOG #
AAA331978

REACTIVITY
Human

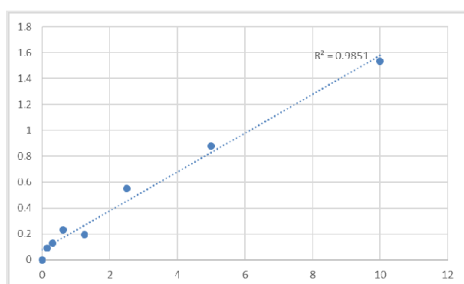
PRODUCT SYNONYMS

Cathepsin Z (CTSZ); Human Cathepsin Z (CTSZ) ELISA Kit; CTSZ; CTSX; FLJ17088; cathepsin X; preprocathepsin P; CTSZ elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Cathepsin Z (CTSZ) ELISA Kit has high sensitivity and excellent specificity for detection of Human CTSZ. No significant cross-reactivity or interference between Human CTSZ and analogues was observed.
Sequence Length	303
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Cathepsin Z (CTSZ) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for CTSZ elisa kit	Description: This Human Cathepsin Z (CTSZ) ELISA Kit employs a two-site sandwich ELISA to quantitate CTSZ in samples. An antibody specific for CTSZ has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any CTSZ present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CTSZ is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of CTSZ bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Cathepsin Z or cathepsin X 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. The predicted 303-amino acid protein has the domain structure characteristic of cysteine proteinases, including a signal sequence, a prodomain, and a catalytic domain responsible for proteolytic activity. However, it also contains 3 unique peptide insertions. Cathepsin Z shares protein sequence identity with other human cysteine proteinases of the papain family, including 34% with cathepsin C and 26% with cathepsin B.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	22538442
NCBI GeneID	1522
NCBI Accession #	NP_001327.2
NCBI GenBank Nucleotide #	NP_001327.2
UniProt Accession #	Q9UBR2
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
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.