

Rat Cathepsin K ELISA Kit | Cath-K elisa kit

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CATALOG #
AAA86986

REACTIVITY
Rat

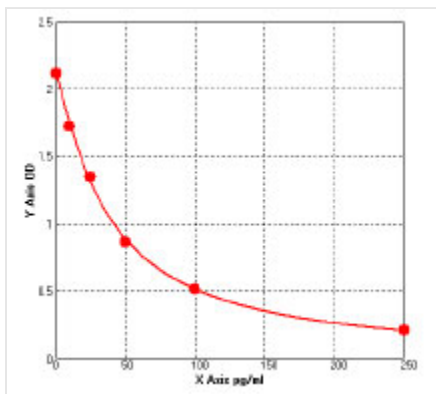
PRODUCT SYNONYMS

Cathepsin K; Rat Cathepsin K ELISA Kit; Cath-K elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of CTSK. No significant cross-reactivity or interference between CTSK and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CTSK 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	1.0 pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503151
NCBI GeneID	1513
NCBI Accession #	NP_000387.1
NCBI GenBank Nucleotide #	NM_000396.3
Molecular Weight	36,966 Da
NCBI Official Full Name	cathepsin K preproprotein
NCBI Official Synonym Full Names	cathepsin K
NCBI Official Symbol	CTSK
NCBI Official Synonym Symbols	CTSO; PKND; PYCD; CTSO2; CTSO1; CTSO2
NCBI Protein Information	cathepsin K; cathepsin O; cathepsin X; cathepsin O1; cathepsin O2
UniProt Protein Name	Cathepsin K
UniProt Gene Name	CTSK
UniProt Synonym Gene Names	CTSO; CTSO2
UniProt Entry Name	CATK_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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