

Porcine Cathepsin K ELISA Kit | Cath-K elisa kit

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CATALOG #
AAA90910

REACTIVITY
Porcine

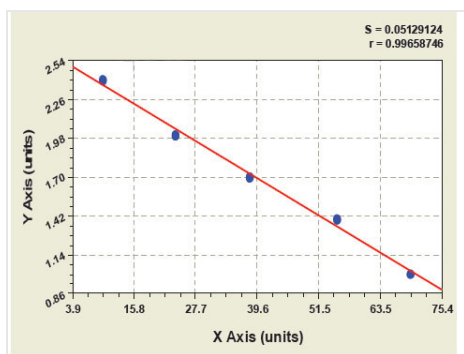
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Porcine
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	10-250 pmol/L
Sensitivity	1.0 pmol/L
Intended Uses	This Cath-K ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Porcine Cath-K. 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 Cath-K elisa kit

Principle of the Assay: Cath-K ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-Cath-K antibody and an Cath-K-HRP conjugate. The assay sample and buffer are incubated together with Cath-K-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 Cath-K concentration since Cath-K from samples and Cath-K-HRP conjugate compete for the anti-Cath-K antibody binding site. Since the number of sites is limited, as more sites are occupied by Cath-K from the sample, fewer sites are left to bind Cath-K-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The Cath-K concentration in each sample is interpolated from this standard curve.

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/cath-k-porcine-elisa-kits/cathepsin-k/90910>