

Human Cathepsin L PicoKine ELISA Kit | CTSL elisa kit

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CATALOG #
AAA46196

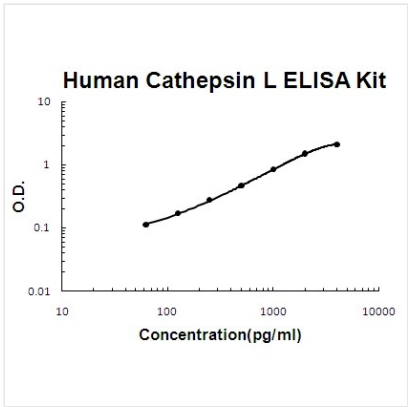
REACTIVITY
Human

PRODUCT SYNONYMS

Cathepsin L PicoKine; Human Cathepsin L PicoKine ELISA Kit; Cathepsin L1; Cathepsin L1 light chain; CathepsinL; CATL; CATL1_HUMAN; CTSL; CTSL1; FLJ31037; Major excreted protein; MEP ; cathepsin L; CTSL elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human Cathepsin L
Sequence Length	333
Assay Range	62.5pg/ml-4000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human Cathepsin L in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, E113-V333
Assay Procedure Step 1	Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml,1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human Cathepsin L standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human Cathepsin L standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 477 1541 2626 527 1712 3015 Standard deviation 27.7 92.46 128.7 32.15 114.7 168.84 CV(%) 5.8 6 4.9 6.1 6.7 5.6
Sample Data	Concentration(pg/ml) 0 62.5 125 250 500 1000 2000 4000 O.D. 0.056 0.112 0.169 0.276 0.459 0.845 1.484 2.081
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Cathepsin L PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTSL elisa kit	Principle of the assay: Human Cathepsin L ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Cathepsin L has been precoated onto 96-well plates. Standards(NSO, E113-V333) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Cathepsin L is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human Cathepsin L amount of sample captured in plate. Background: Cathepsin L is an important lysosomal endopeptidase enzyme which is involved in the initiation of protein degradation. It also shows the most potent collagenolytic and elastinolytic activity in vitro of any of the cathepsins. The gene is mapped to 9q21-q22. It is a member of the Peptidase C1 family, which play an important role in diverse processes including normal lysosome mediated protein turnover, antigen and proprotein processing, and apoptosis. Cathepsin L has been reported in many organisms including fish, birds and mammals.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	384081592
NCBI GeneID	1514
NCBI Accession #	NP_001244900.1
NCBI GenBank Nucleotide #	NM_001257971.1
UniProt Accession #	P07711; Q6IAV1; Q96QJ0
Molecular Weight	37,564 Da
NCBI Official Full Name	cathepsin L1 isoform 1 preproprotein
NCBI Official Synonym Full Names	cathepsin L
NCBI Official Symbol	CTSL
NCBI Official Synonym Symbols	MEP; CATL; CTSL1
NCBI Protein Information	cathepsin L1
UniProt Protein Name	Cathepsin L1
UniProt Gene Name	CTSL
UniProt Synonym Gene Names	CTSL1; MEP

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/human-elisa-kits/cathepsin-l-picokine/46196>