

Mouse Cathepsin D ELISA Kit | CTSD elisa kit

Mouse Cathepsin D PicoKine ELISA Kit

CATALOG #
AAA45931

REACTIVITY
Mouse

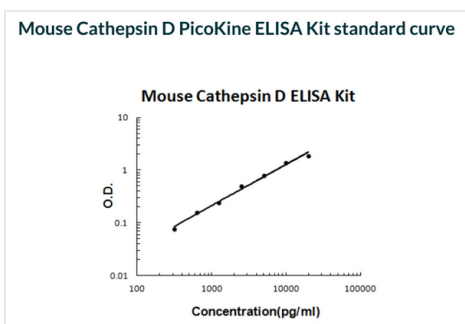
PRODUCT SYNONYMS

Cathepsin D; Mouse Cathepsin D PicoKine ELISA Kit; cathepsin D; CATD_HUMAN; Cathepsin D heavy chain; Ceroid lipofuscinosis neuronal 10; CLN10; CPSD; ctsd; Lysosomal aspartyl protease; CTSD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Ctsd
Sequence Length	410
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA).
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	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 (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSD elisa kit	Background: Cathepsin D is a protein that in humans is encoded by the CTSD gene. This proteinase is a member of the peptidase C1 family, having a specificity similar to but narrower than that of pepsin A. It is mapped to 11p15.5. The cDNA encodes a 412-amino acid protein with 20 and 44 amino acids in a pre- and prosegment, respectively. Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. Mutations in this gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease and it has been considered as a breast cancer tumor marker. Principle of the Assay: The Picokine™ Mouse Ctsd Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Mouse Ctsd with a 96-well strip plate that is pre-coated with antibody specific for Ctsd. The detection antibody is a biotinylated antibody specific for Ctsd. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Ctsd with immunogen: Expression system for standard: NS0; Immunogen sequence: I21-L410. The kit is analytically validated with ready-to-use reagents. To measure Mouse Ctsd, 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 Mouse Ctsd 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 Mouse Ctsd in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115718
NCBI GeneID	13033
UniProt Accession #	P18242
Molecular Weight	44,954 Da
NCBI Official Full Name	Cathepsin D
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	Ctsd
NCBI Official Synonym Symbols	CD; CatD
NCBI Protein Information	cathepsin D
UniProt Protein Name	Cathepsin D
UniProt Gene Name	Ctsd
UniProt Entry Name	CATD_MOUSE

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/ctsd-mouse-elisa-kits/cathepsin-d/45931>