

Human Cathepsin D ELISA Kit | CTSD elisa kit

CATHEPSIN D Human ELISA Kit

CATALOG # AAA58941	REACTIVITY Human	APPLICATIONS ELISA
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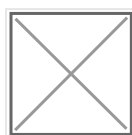
PRODUCT SYNONYMS

Cathepsin D; CATHEPSIN D Human ELISA Kit; Human Cathepsin D; CTSD elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Detection Range	156 pg/ml-10,000 pg/ml
Sensitivity	< 10pg/ml
Applicable Applications for CTSD elisa kit	ELISA
Preparation and Storage	Store at 2-8 degree C for 4 months, or at -20 degree C for 8 months.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSD elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-Cathepsin D polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-Cathepsin D polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 Cathepsin D amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of Cathepsin D can be calculated.

Background: Cathepsin D is one of the lysosomal proteinases. It is ubiquitously expressed and is involved in proteolytic degradation, cell invasion, and apoptosis. It is an aspartic protease that depends critically on protonation of its active site Asp residue and gets activated at pH 5 in endosome of hepatocytes where it degrades insulin. Mutations in the CTSD gene are involved in the pathogenesis of several diseases, including breast cancer and possibly Alzheimer disease. It also has been used as a breast cancer tumor marker.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503143
NCBI GeneID	1509

NCBI Accession #	NP_001900.1
NCBI GenBank Nucleotide #	NM_001909.4
UniProt Accession #	P07339 ; Q6IB57
Molecular Weight	44,552 Da
NCBI Official Full Name	cathepsin D preproprotein
NCBI Official Synonym Full Names	cathepsin D
NCBI Official Symbol	CTSD
NCBI Official Synonym Symbols	CPSD; CLN10
NCBI Protein Information	cathepsin D; lysosomal aspartyl protease; lysosomal aspartyl peptidase; ceroid-lipofuscinosis, neuronal 10
UniProt Protein Name	Cathepsin D
UniProt Gene Name	CTSD
UniProt Synonym Gene Names	CPSD
UniProt Entry Name	CATD_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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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/cathepsin-d/58941>