

Human Cathepsin A ELISA Kit | CTSA elisa kit

Human Cathepsin A ELISA Kit PicoKine

CATALOG # AAA126722	REACTIVITY Human	APPLICATIONS ELISA
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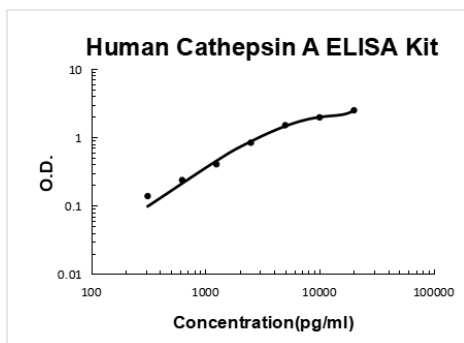
PRODUCT SYNONYMS

Cathepsin A; Human Cathepsin A ELISA Kit PicoKine; CTSA elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human CTSA
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	312 pg/ml - 20,000 pg/ml
Sensitivity	<10 pg/ml
Applicable Applications for CTSA elisa kit	ELISA
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): 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 (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)

IMAGES



Standard Curve (Sample)

Human Cathepsin A PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for CTSA elisa kit	Background: Complement factor H-related protein 4 is a protein that in humans is encoded by the CFHR4 gene. This gene is a member of the complement factor H (CFH) gene family, and encodes one of the 5 CFH-related (CFHR) proteins. These 5 genes are closely linked to the CFH gene on chromosome 1q31-q32. The CFHRs are secreted plasma proteins synthesized primarily by the hepatocytes, and composed of highly-related short consensus repeats (SCRs). This protein enhances the cofactor activity of CFH, and is involved in complement regulation. It can associate with lipoproteins and may play a role in lipid metabolism. Alternatively spliced transcript variants encoding different isoforms (varying in the number of SCRs) have been described for this gene. Principle of the Assay: The Picokine™ Human CTSA Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CTSA with a 96-well strip plate that is pre-coated with antibody specific for CTSA. The detection antibody is a biotinylated antibody specific for CTSA. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit includes Human CTSA protein as standards. To measure Human CTSA, 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 unbound 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 Human CTSA 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 Human CTSA in the sample.
Product Categories/Family for CTSA elisa kit	PicoKine ELISA Kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	119395729
NCBI GeneID	5476
NCBI Accession #	NP_000299.2
NCBI GenBank Nucleotide #	NM_000308.2
UniProt Accession #	P10619; Q561W6; Q5JZH1; Q96KJ2; Q9BR08; Q9BW68; B2R798
Molecular Weight	54,466 Da
NCBI Official Full Name	lysosomal protective protein isoform a
NCBI Official Synonym Full Names	cathepsin A
NCBI Official Symbol	CTSA
NCBI Official Synonym Symbols	GSL; GLB2; NGBE; PPCA; PPGB
NCBI Protein Information	lysosomal protective protein; deamidase; urinary kininase; carboxypeptidase C; carboxypeptidase L; carboxypeptidase-L; beta-galactosidase 2; lysosomal carboxypeptidase A; protective protein cathepsin A; carboxypeptidase Y-like kininase; beta-galactosidase
UniProt Protein Name	Lysosomal protective protein
UniProt Gene Name	CTSA
UniProt Synonym Gene Names	PPGB; PPCA
UniProt Entry Name	PPGB_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.