

Human Cathepsin G ELISA Kit | CTSG elisa kit

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CATALOG #
AAA17533

REACTIVITY
Human

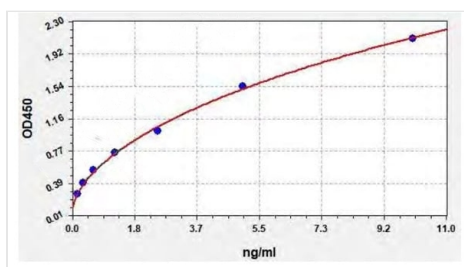
PRODUCT SYNONYMS

Cathepsin G; Human Cathepsin G ELISA Kit; CTSG (Cathepsin G)/CG/CATG; CTSG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Specifically recognize CTSG, no obvious cross reaction with other analogues
Sequence Length	255
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernatant and other biological samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision: samples with low, medium and high concentration are tested 20 times on same plate.
Inter-assay Precision	Inter-assay Precision: samples with low, medium and high concentration are tested 20 times on three different plates.
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for CTSG elisa kit	Background: Cathepsin G is a serine protease which was first identified in the cytoplasmic azurophilic granules of neutrophil leukocytes. As a degradative enzyme, Cathepsin G acts both intracellularly to degrade ingested host pathogens and extracellularly to breakdown ECM components at inflammatory sites. Independent of its serine protease activity, Cathepsin G is also known to exert broad-spectrum antibacterial action against Gram-negative and - positive bacteria. Cathepsin G has been reported to play an important role in the pathophysiology of several diseases, such as chronic obstructive pulmonary disease (COPD), rheumatoid arthritis, cystic fibrosis, and other conditions clinically manifested by excessive inflammatory reactions. Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti CTSG antibody was precoated onto the 96-well plate. The biotin conjugated anti CTSG antibody was used as the detection antibody. The standards and pilot samples were added to the wells subsequently. After incubation, unbound conjugates were removed by wash buffer. Then, biotinylated detection antibody was added to bind with CTSG conjugated on coated antibody. After washing off unbound conjugates, HRP-Streptavidin was added. After a third washing, TMB substrates were added to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that turned yellow after adding a stop solution. Read the O.D. absorbance at 450nm in a microplate reader. The concentration of CTSG in the sample was calculated by drawing a standard curve. The concentration of the target substance is proportional to the OD450 value.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4503149
NCBI GeneID	1511
NCBI Accession #	NP_001902.1
NCBI GenBank Nucleotide #	NM_001911.2
Molecular Weight	28,837 Da
NCBI Official Full Name	cathepsin G preproprotein
NCBI Official Synonym Full Names	cathepsin G
NCBI Official Symbol	CTSG
NCBI Official Synonym Symbols	CG; CATG
NCBI Protein Information	cathepsin G
UniProt Protein Name	Cathepsin G
UniProt Gene Name	CTSG
UniProt Synonym Gene Names	CG
UniProt Entry Name	CATG_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/ctsg-human-elisa-kits/cathepsin-g/17533>