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Datasheet for ABIN1672865 Cathepsin S ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	Cathepsin S (CTSS)
Binding Specificity:	AA 17-331, AA 109-331
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Cathepsin S
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: Q17-I331&S109-I331
Specificity:	Expression system for standard: NSO Immunogen sequence: Q17-I331&S109-I331
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in the
	detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation
	of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

Target Details

Protocol:

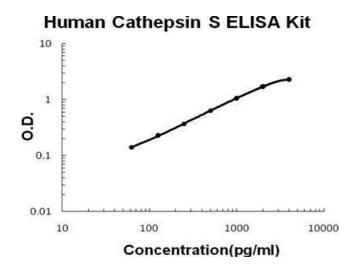
Target:	Cathepsin S (CTSS)
Alternative Name:	CTSS (CTSS Products)
Background:	Protein Function: Thiol protease. Key protease responsible for the removal of the invariant
	chain from MHC class II molecules. The bond- specificity of this proteinase is in part similar to
	the specificities of cathepsin L and cathepsin N.
	Background: Cathepsin S, also known as CTSS, is a protein that in humans is encoded by the
	CTSS gene. A member of the peptidase C1 family, CTSS gene is a lysosomal cysteine
	proteinase that may participate in the degradation of antigenic proteins to peptides for
	presentation on MHC class II molecules. By fluorescence in situ hybridization(FISH), this gene
	is mapped to 1q21.3. The encoded protein can function as an elastase over a broad pH range in
	alveolar macrophages. The bond-specificity of this proteinase is in part similar to the
	specificities of cathepsin L and cathepsin N.
	Synonyms: Cathepsin S,3.4.22.27,CTSS,
	Full Gene Name: Cathepsin S
	Cellular Localisation: Lysosome.
Gene ID:	1520
UniProt:	P25774
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Plate:	Pre-coated

human Cathepsin S ELISA Kit was based on standard sandwich enzyme-linked immune-

sorbent assay technology. A monoclonal antibody from mouse specific for Cathepsin S has

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been precoated onto 96-well plates. Standards(NSO, Q17-I331 & S109-I331) and test samples
are added to the wells, a biotinylated detection polyclonal antibody from goat specific for
Cathepsin S 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 S amount of
sample captured in plate.
Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL,
125pg/mL, 62.5pg/mL human Cathepsin S standard solutions into the precoated 96-well plate.
Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each
properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to
each empty well. See "Sample Dilution Guideline" above for details. It is recommended that
each human Cathepsin S standard solution and each sample be measured in duplicate.
Sample 1: n=16, Mean(pg/ml): 443, Standard deviation: 23.48, CV(%): 5.3
 Sample 2: n=16, Mean(pg/ml): 1215, Standard deviation: 65.61, CV(%): 5.4
 Sample 3: n=16, Mean(pg/ml): 2611, Standard deviation: 151.44, CV(%): 5.8,
 Sample 1: n=24, Mean(pg/ml): 455, Standard deviation: 27.76, CV(%): 6.1
 Sample 2: n=24, Mean(pg/ml): 1219, Standard deviation: 76.80, CV(%): 6.3
 Sample 3: n=24, Mean(pg/ml): 2659, Standard deviation: 178.15, CV(%): 6.7
For Research Use only
Avoid multiple freeze-thaw cycles.
-20 °C,4 °C
-20 °C,4 °C Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles



ELISA

Image 1. Human Cathepsin S PicoKine ELISA Kit standard curve

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