

Datasheet for ABIN6720096 Cathepsin B ELISA Kit

Image



#### Overview

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Quantity:	1 kit
Target:	Cathepsin B (CTSB)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156 pg/mL - 10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	Synonyms: aAmyloid precursor protein secretase, APP secretase, APPS, CATB_HUMAN,
	Cathepsin B heavy chain, Cathepsin B1, CPSB, CTSB, Cysteine protease
	Background: Cathepsin B is an enzymatic protein belonging to the peptidase or protease
	families. In humans, it is coded by the CTSB gene.1, 2 And this gene is mapped to chromosome
	8p22.3 The protein encoded by this gene is a lysosomal cysteine proteinase composed of a
	dimer of disulfide-linked heavy and light chains, both produced from a single protein precursor.
	It is a member of the peptidase C1 family. Cathepsin B was once suspected as a candidate
	protease participating in the conversion of beta-amyloid precursor protein into the amyloid

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/3 | Product datasheet for ABIN6720096 | 07/25/2024 | Copyright antibodies-online. All rights reserved. plaques found in Alzheimer's disease patients. However, this function is now known to be mediated by BACE1 protease. It is now thought that cathepsin B can degrade beta-amyloid precursor protein into harmless fragments. Thus, it is conceivable cathepsin B may play a pivotal role in the natural defense against Alzheimer's disease.4 Overexpression of cathepsin B has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. The standard product used in this kit is recombinant human Cathepsin B with the molecular mass of 37KDa. Gene Name: CTSB Production: Natural and recombinant human Cathepsin B.There is no detectable crossreactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: R18-I339

# Target Details

Target:	Cathepsin B (CTSB)
Alternative Name:	Cathepsin B (CTSB Products)
Gene ID:	1508
NCBI Accession:	NP_001899
UniProt:	P07858
Pathways:	Activation of Innate immune Response, Toll-Like Receptors Cascades

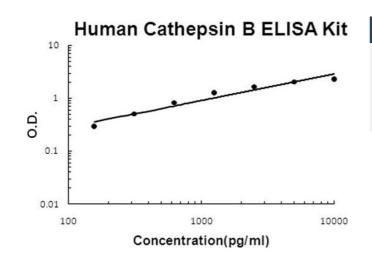
# Application Details

Application Notes:	Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot
	0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL,
	312pg/mL, 156pg/mL human Cathepsin B 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. It is recommended that each human Cathepsin B standard solution and each
	sample be measured in duplicate.
	Blood Product Anticoagulant: Heparin Sodium
	ELISA Dilution: 156pg/mL-10000pg/mL
Sample Volume:	100 µL
Plate:	Pre-coated

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Application Details	
Restrictions:	For Research Use only
Handling	
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

#### Images



#### ELISA

**Image 1.** Human Cathepsin B Accusignal ELISA Kit Human Cathepsin B AccuSignal ELISA Kit standard curve. Assay Range: 156pg/ml-10000pg/ml. Sensitivity: <5pg/ml.

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