

ARG81432 Human Cathepsin B ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81432-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81432-002	Standard	2 X 10 ng/vial	4°C
ARG81432-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81432-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81432-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81432-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81432-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81432-008	25X Wash buffer	20 ml	4°C
ARG81432-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81432-010	STOP solution	10 ml (Ready to use)	4°C
ARG81432-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81432 Human Cathepsin B ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cathepsin B in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Cathepsin B
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 7.2% Inter-Assay CV: 8.3%
Alternate Names	EC 3.4.22.1; Cathepsin B; APPS; CPSB; APP secretase; Cathepsin B1

Application Instructions

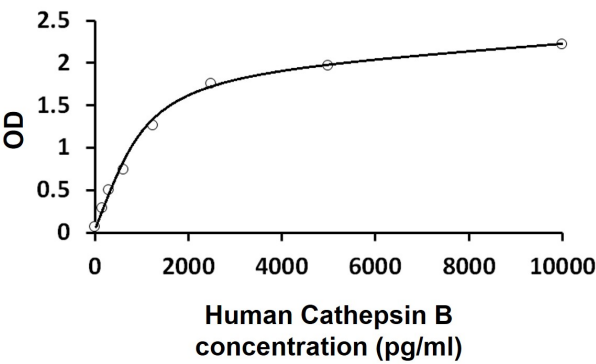
Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CTSB
Gene Full Name	cathepsin B
Background	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 also known as amyloid precursor protein secretase and is involved in the proteolytic processing of amyloid precursor protein (APP). Incomplete proteolytic processing of APP has been suggested to be a causative factor in Alzheimer disease, the most common cause of dementia. Overexpression of the encoded protein, which is a member of the peptidase C1 family, has been associated with esophageal adenocarcinoma and other tumors. At least five transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Thiol protease which is believed to participate in intracellular degradation and turnover of proteins. Has also been implicated in tumor invasion and metastasis. [UniProt]
Highlight	Related products: Cathepsin antibodies ; Cathepsin ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81432 Human Cathepsin B ELISA Kit standard curve image

ARG81432 Human Cathepsin B ELISA Kit results of a typical standard run with optical density reading at 450 nm.