



Mouse Cathepsin B(CTSB) ELISA kit

Product Code	CSB-EL006185MO
Abbreviation	CTSB
Target Name	cathepsin B
Uniprot No.	P10605
Alias	APPS, CPSB, APP secretase amyloid precursor protein secretase cathepsin B1 cysteine protease preprocathepsin B
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Signal Transduction
Gene Names	Ctsb
Tag Info	quantitative
Protein Description	Sandwich

Description	This Mouse CTSB ELISA Kit was designed for the quantitative measurement of Mouse CTSB protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL.
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Target Details	This protein 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.
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Product Precision	Intra-assay Precision (Precision within an assay): CV%<8%
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Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse CTSB in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
	Average %	91
1:1	Range %	83-95
	Average %	98
1:2	Range %	92-103
	Average %	96
1:4	Range %	85-100
	Average %	103
1:8	Range %	92-107

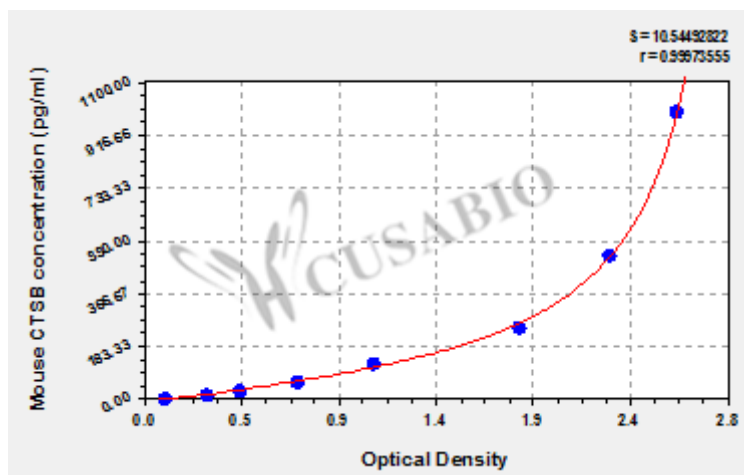
Recovery

The recovery of mouse CTSB spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	94	91-97
EDTA plasma (n=4)	100	92-104

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
1000	2.628	2.532	2.580	2.474
500	2.315	2.189	2.252	2.146
250	1.856	1.776	1.816	1.710
125	1.124	1.102	1.113	1.007
62.5	0.758	0.734	0.746	0.640
31.2	0.472	0.463	0.468	0.362
15.6	0.315	0.302	0.309	0.203
0	0.104	0.108	0.106	?

Msds

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