



Mouse Cathepsin L1(CTSL1) ELISA kit

Product Code	CSB-EL006193MO
Abbreviation	CTSL1
Target Name	cathepsin L1
Uniprot No.	P06797
Alias	CATL, CTSL, FLJ31037, MEP, cathepsin L major excreted protein
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	78 pg/mL-5000 pg/mL
Sensitivity	19.5 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	Ctsl
Tag Info	quantitative
Protein Description	Sandwich

Description

This Mouse CTSL1 ELISA Kit was designed for the quantitative measurement of Mouse CTSL1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 78 pg/mL-5000 pg/mL and the sensitivity is 19.5 pg/mL.

Target Details

This protein is a lysosomal cysteine proteinase that plays a major role in intracellular protein catabolism. Its substrates include collagen and elastin, as well as alpha-1 protease inhibitor, a major controlling element of neutrophil elastase activity. The encoded protein has been implicated in several pathologic processes, including myofibril necrosis in myopathies and in myocardial ischemia, and in the renal tubular response to proteinuria. This protein, which is a member of the peptidase C1 family, is a dimer composed of disulfide-linked heavy and light chains, both produced from a single protein precursor. At least two transcript variants encoding the same protein have been found for this gene.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%
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 CTSL1 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)
1:1	Average %	85
	Range %	80-90
1:2	Average %	106
	Range %	102-113
1:4	Average %	93
	Range %	89-98
1:8	Average %	99
	Range %	94-105

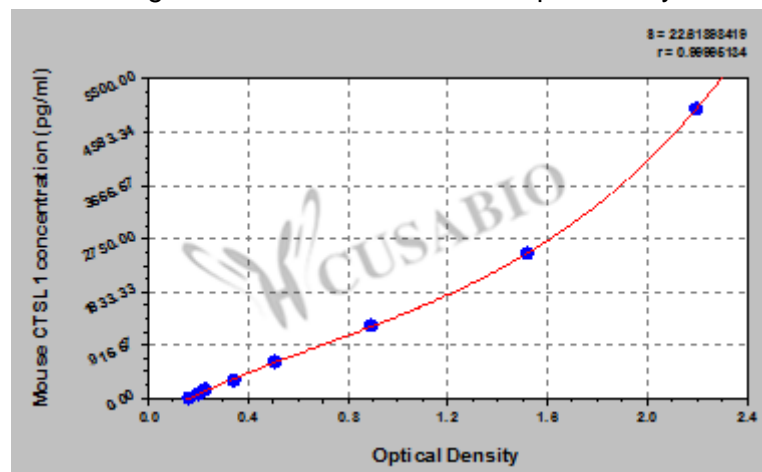
Recovery

The recovery of mouse CTSL1 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)	90	85-94
EDTA plasma (n=4)	95	90-100

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
5000	2.162	2.320	2.241	2.058
2500	1.573	1.534	1.554	1.371
1250	0.948	0.892	0.920	0.737
625	0.549	0.513	0.531	0.348
312	0.359	0.371	0.365	0.182
156	0.254	0.237	0.246	0.063
78	0.224	0.212	0.218	0.035
0	0.180	0.185	0.183	

Msds

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