



Rat Caspase-1(CASP1) ELISA kit

Product Code	CSB-EL004543RA
Abbreviation	CASP1
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	caspase 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
Uniprot No.	P43527
Alias	ICE, IL1BC, P45, CASP1 nirs variant 1 IL1B-convertase caspase 1 caspase 1, apoptosis-related cysteine protease (interleukin 1, beta, convertase) caspase-1 interleukin 1-B converting enzyme interleuk
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, cell lysates, cell culture supernates
Detection Range	6.25 pg/mL-400 pg/mL
Sensitivity	1.56 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	Cell Biology
Gene Names	Casp1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Rat CASP1 ELISA Kit was designed for the quantitative measurement of Rat CASP1 protein in serum, plasma, cell lysates, cell culture supernates. It is a Sandwich ELISA kit, its detection range is 6.25 pg/mL-400 pg/mL and the sensitivity is 1.56 pg/mL.
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 rat CASP1 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 %	91
	Range %	88-93
1:2	Average %	95
	Range %	90-102
1:4	Average %	97
	Range %	94-101
1:8	Average %	94
	Range %	91-98

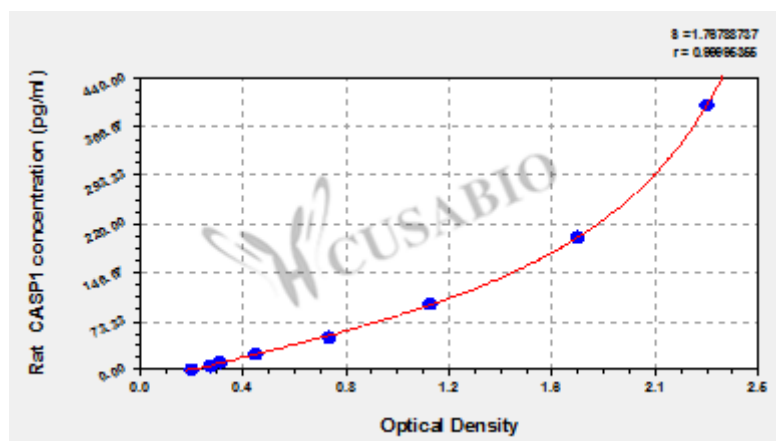
Recovery

The recovery of rat CASP1 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	86-94
EDTA plasma (n=4)	99	93-105

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
400	2.189	2.321	2.255	2.047
200	1.729	1.754	1.742	1.534
100	1.151	1.165	1.158	0.950
50	0.755	0.748	0.752	0.544
25	0.456	0.468	0.462	0.254
12.5	0.317	0.325	0.321	0.113
6.25	0.277	0.290	0.284	0.076
0	0.201	0.215	0.208	?

Msds

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