



# Human Caspase-9, Casp-9 ELISA Kit

<b>Product Code</b>	CSB-E08862h
<b>Abbreviation</b>	CASP9
<b>Protein Biological Process 1</b>	Apoptosis/Autophagy
<b>Target Name</b>	caspase 9, apoptosis-related cysteine peptidase
<b>Uniprot No.</b>	P55211
<b>Alias</b>	RP11-265F14.3, APAF-3, APAF3, CASPASE-9c, ICE-LAP6, MCH6, ICE-like apoptotic protease 6 apoptotic protease MCH-6 apoptotic protease activating factor 3 caspase 9 caspase 9, apoptosis-related cystein
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Protein Biological Process 3</b>	Apoptosis
<b>Sample Types</b>	serum, plasma, tissue homogenates, cell lysates
<b>Detection Range</b>	0.78 ng/mL-50 ng/mL
<b>Sensitivity</b>	0.195 ng/mL
<b>Assay Time</b>	1-5h
<b>Sample Volume</b>	50-100ul
<b>Detection Wavelength</b>	450 nm
<b>Lead Time</b>	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
<b>Research Area</b>	Cell Biology
<b>Gene Names</b>	CASP9
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human CASP9 ELISA Kit was designed for the quantitative measurement of Human CASP9 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.78 ng/mL-50 ng/mL and the sensitivity is 0.195 ng/mL.
<b>Target Details</b>	This gene encodes a member of the cysteine-aspartic acid protease (caspase) family. Sequential activation of caspases plays a central role in the execution-phase of cell apoptosis. Caspases exist as inactive proenzymes which undergo proteolytic processing at conserved aspartic residues to produce two subunits, large and small, that dimerize to form the active enzyme. This protein is processed by caspase APAF1; this step is thought to be one of the earliest in



the caspase activation cascade. Alternative splicing results in two transcript variants which encode different isoforms.

#### 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 human Casp-9 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 %	90
	Range %	84-94
1:2	Average %	96
	Range %	91-99
1:4	Average %	91
	Range %	87-94
1:8	Average %	100
	Range %	94-103

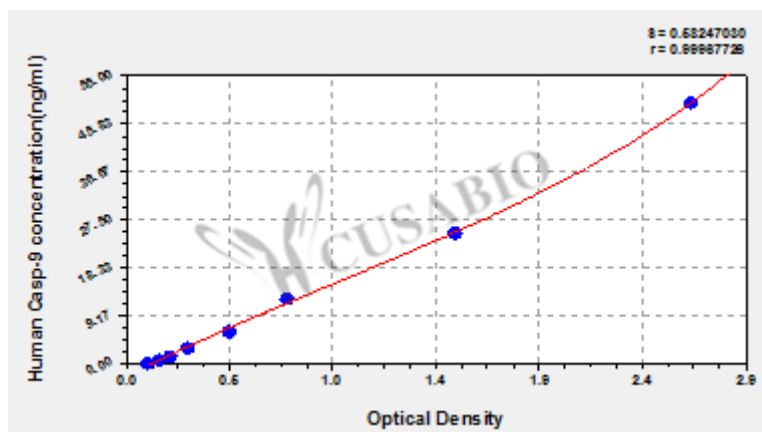
#### Recovery

The recovery of human Casp-9 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)	95	88-97
EDTA plasma (n=4)	105	97-108

#### Typical

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



ng/ml	OD1	OD2	Average	Corrected
50	2.702	2.546	2.624	2.520
25	1.526	1.533	1.530	1.426
12.5	0.745	0.764	0.755	0.651
6.25	0.479	0.486	0.483	0.379
3.12	0.289	0.293	0.291	0.187
1.56	0.212	0.215	0.214	0.110
0.78	0.161	0.164	0.163	0.059
0	0.106	0.102	0.104	

## Msds

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