Human calpain 2, (m/II) large subunit (CAPN2) ELISA kit

Product Code	CSB-E17822h
Abbreviation	CAPN2
Target Name	calpain 2, (m/II) large subunit
Uniprot No.	P17655
Alias	CANP2, CANPL2, CANPml, FLJ39928, mCANP, M-calpain|calcium-activated neutral proteinase|calpain 2|calpain 2, large [catalytic] subunit|calpain 2, large subunit|calpain M-type|calpain, large polypepti
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell lysates
Detection Range	0.156 ng/mL-10 ng/mL
Sensitivity	0.039 ng/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	Cancer
Gene Names	CAPN2
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CAPN2 ELISA Kit was designed for the quantitative measurement of Human CAPN2 protein in serum, plasma, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.156 ng/mL-10 ng/mL and the sensitivity is 0.039 ng/mL.
Target Details	The calpains, calcium-activated neutral proteases, are nonlysosomal, intracellular cysteine proteases. The mammalian calpains include ubiquitous, stomach-specific, and muscle-specific proteins. The ubiquitous enzymes consist of heterodimers with distinct large, catalytic subunits associated with a common small, regulatory subunit. This gene encodes the large subunit of the ubiquitous enzyme, calpain 2. Multiple heterogeneous transcriptional start sites in the 5 UTR have been reported. Two transcript variants encoding different isoforms 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 human CAPN2 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 %	87
	Range %	84-90
1:2	Average %	104
	Range %	101-107
1:4	Average %	98
	Range %	94-102
1:8	Average %	101
	Range %	98-104

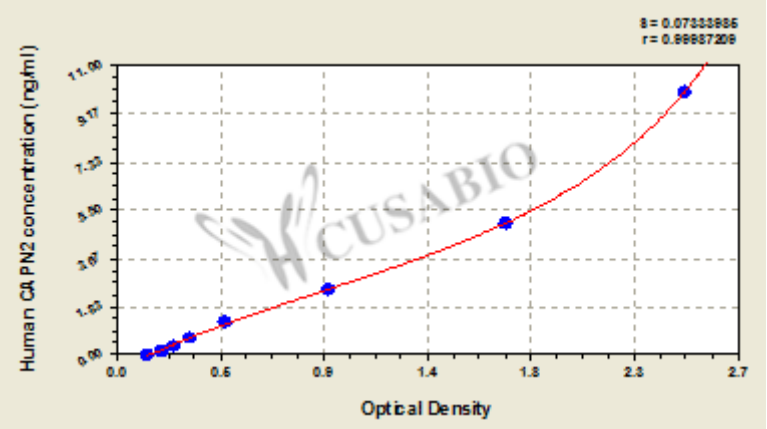
Recovery

The recovery of human CAPN2 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)	85	81-89
EDTA plasma (n=4)	92	88-96

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
10	2.432	2.502	2.467	2.327
5	1.688	1.698	1.693	1.553
2.5	0.923	0.934	0.929	0.789
1.25	0.489	0.476	0.483	0.343
0.625	0.329	0.319	0.324	0.184
0.312	0.256	0.262	0.259	0.119
0.156	0.201	0.210	0.206	0.066
0	0.139	0.141	0.140	?

Msds

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