



Human Calpain-5(CAPN5) ELISA kit

Product Code	CSB-EL004498HU
Abbreviation	CAPN5
Target Name	calpain 5
Uniprot No.	O15484
Alias	FLJ46245, HTRA3, nCL-3
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 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	CAPN5
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CAPN5 ELISA Kit was designed for the quantitative measurement of Human CAPN5 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL.
Target Details	Calpains are calcium-dependent cysteine proteases involved in signal transduction in a variety of cellular processes. A functional calpain protein consists of an invariant small subunit and 1 of a family of large subunits. CAPN5 is one of the large subunits. Unlike some of the calpains, CAPN5 and CAPN6 lack a calmodulin-like domain IV. Because of the significant similarity to Caenorhabditis elegans sex determination gene tra-3, CAPN5 is also called as HTRA3.
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 CAPN5 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 %	88
	Range %	81-91
1:2	Average %	105
	Range %	99-108
1:4	Average %	89
	Range %	85-93
1:8	Average %	93
	Range %	89-97

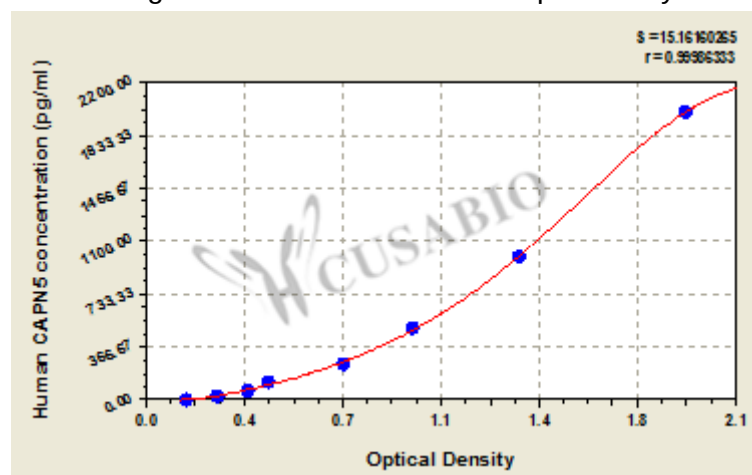
Recovery

The recovery of human CAPN5 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)	91	84-95
EDTA plasma (n=4)	95	89-100

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
2000	1.972	1.917	1.945	1.787
1000	1.339	1.358	1.349	1.191
500	0.979	0.956	0.968	0.810
250	0.728	0.712	0.720	0.562
125	0.448	0.454	0.451	0.293
62.5	0.381	0.369	0.375	0.217
31.25	0.261	0.277	0.269	0.111
0	0.160	0.156	0.158	

Msds

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