



# Human A-kinase anchor protein 4(AKAP4) ELISA kit

<b>Product Code</b>	CSB-EL001526HU
<b>Protein Biological Process 2</b>	Amino-acid biosynthesis and metabolism
<b>Abbreviation</b>	AKAP4
<b>Protein Biological Process 1</b>	Biosynthesis/Metabolism
<b>Target Name</b>	A kinase (PRKA) anchor protein 4
<b>Uniprot No.</b>	Q5JQC9
<b>Alias</b>	RP13-377G1__B.1, AKAP82, CT99, FSC1, HI, hAKAP82, p82, A-kinase anchor protein 4 A-kinase anchor protein 82 kDa cancer/testis antigen 99 protein kinase A anchoring protein 4 testis-specific gene HI
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Protein Biological Process 3</b>	Cilium biogenesis/degradation
<b>Sample Types</b>	serum, plasma, tissue homogenates
<b>Detection Range</b>	25 pg/mL-1600 pg/mL
<b>Sensitivity</b>	6.25 pg/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>	Metabolism
<b>Gene Names</b>	AKAP4
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich
<b>Description</b>	This Human AKAP4 ELISA Kit was designed for the quantitative measurement of Human AKAP4 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 25 pg/mL-1600 pg/mL and the sensitivity is 6.25 pg/mL.
<b>Target Details</b>	The A-kinase anchor proteins (AKAPs) are a group of structurally diverse



proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is localized to the sperm flagellum and may be involved in the regulation of sperm motility. Alternative splicing of this gene results in two transcript variants encoding 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 AKAP4 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 %	94
	Range %	90-99
1:2	Average %	89
	Range %	85-96
1:4	Average %	105
	Range %	100-114
1:8	Average %	85
	Range %	80-89

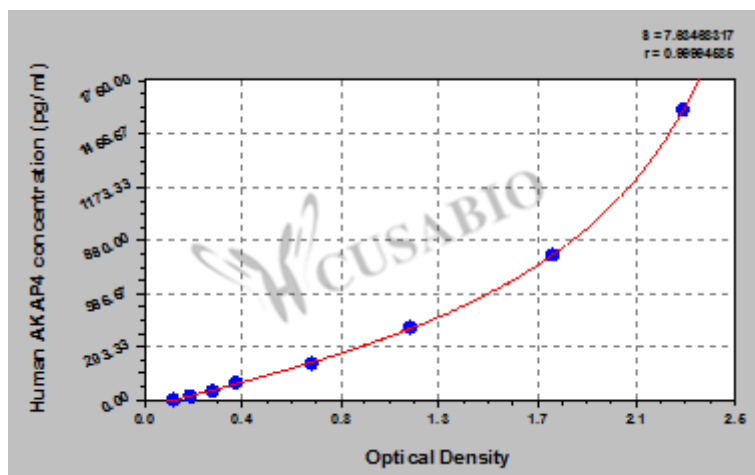
### Recovery

The recovery of human AKAP4 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)	98	93-102
EDTA plasma (n=4)	92	88-87

### 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
1600	2.339	2.257	2.298	2.159
800	1.813	1.676	1.745	1.606
400	1.156	1.124	1.140	1.001
200	0.699	0.743	0.721	0.582
100	0.387	0.415	0.401	0.262
50	0.297	0.304	0.301	0.162
25	0.215	0.209	0.212	0.073
0	0.137	0.141	0.139	

## Msds

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