



Human β -actin ELISA Kit

Product Code	CSB-E13298h
Abbreviation	ACTB
Target Name	actin, beta
Uniprot No.	P60709
Alias	PS1TP5BP1, PS1TP5-binding protein 1 actin, cytoplasmic 1 beta actin β actin beta cytoskeletal actin β cytoskeletal actin
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	0.312 ng/mL-20 ng/mL
Sensitivity	0.078 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	Signal Transduction
Gene Names	ACTB
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ACTB ELISA Kit was designed for the quantitative measurement of Human ACTB protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 0.312 ng/mL-20 ng/mL and the sensitivity is 0.078 ng/mL.
Target Details	This gene encodes one of six different actin proteins. Actins are highly conserved proteins that are involved in cell motility, structure, and integrity. This actin is a major constituent of the contractile apparatus and one of the two nonmuscle cytoskeletal actins.
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 β -actin 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 %	80-105
1:2	Average %	92
	Range %	85-100
1:4	Average %	97
	Range %	92-105
1:8	Average %	90
	Range %	83-100

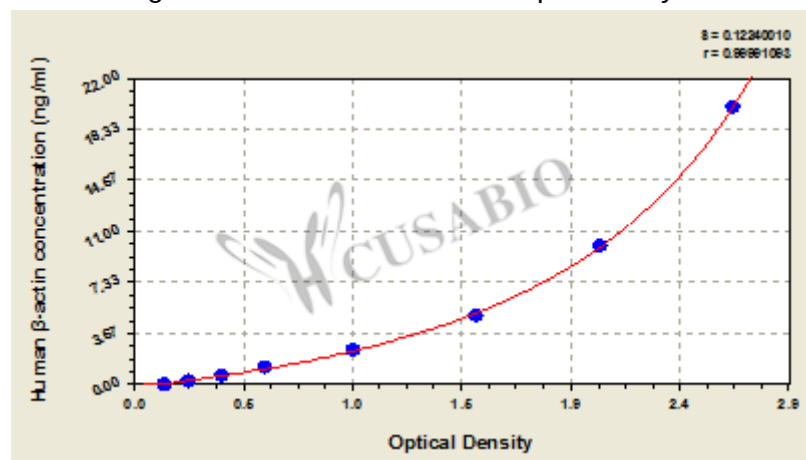
Recovery

The recovery of human β -actin 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	82-100
EDTA plasma (n=4)	95	89-105

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
20	2.652	2.641	2.647	2.497
10	2.134	1.993	2.064	1.914
5	1.548	1.486	1.517	1.367
2.5	0.987	0.960	0.974	0.824
1.25	0.595	0.578	0.587	0.437
0.625	0.402	0.397	0.400	0.250
0.312	0.263	0.245	0.254	0.104
0	0.154	0.145	0.150	?

Msds

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