Human Tyrosine-protein kinase ABL1(ABL1) ELISA kit

Product Code	CSB-EL001105HU
Abbreviation	ABL1
Protein Biological Process 1	Apoptosis/Autophagy
Target Name	c-abl oncogene 1, receptor tyrosine kinase
Uniprot No.	P00519
Alias	RP11-83J21.1, ABL, JTK7, bcr/abl, c-ABL, p150, v-abl, bcr/c-abl oncogene protein|proto-oncogene tyrosine-protein kinase ABL1|v-abl Abelson murine leukemia viral oncogene homolog 1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Apoptosis
Sample Types	serum, plasma, tissue homogenates
Detection Range	25 pg/mL-1600 pg/mL
Sensitivity	6.25 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	Cancer
Gene Names	ABL1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human ABL1 ELISA Kit was designed for the quantitative measurement of Human ABL1 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.
Target Details	The ABL1 protooncogene encodes a cytoplasmic and nuclear protein tyrosine kinase that has been implicated in processes of cell differentiation, cell division, cell adhesion, and stress response. Activity of c-Abl protein is negatively

regulated by its SH3 domain, and deletion of the SH3 domain turns ABL1 into an oncogene. The t(9;22) translocation results in the head-to-tail fusion of the BCR (MIM:151410) and ABL1 genes present in many cases of chronic myelogeneous leukemia. The DNA-binding activity of the ubiquitously expressed ABL1 tyrosine kinase is regulated by CDC2-mediated phosphorylation, suggesting a cell cycle function for ABL1. The ABL1 gene is expressed as either a 6- or 7-kb mRNA transcript, with alternatively spliced first exons spliced to the common exons 2-11.

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 ABL1 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 %	95
	Range %	85-102
1:2	Average %	98
	Range %	95-114
1:4	Average %	93
	Range %	80-107
1:8	Average %	85
	Range %	80-89

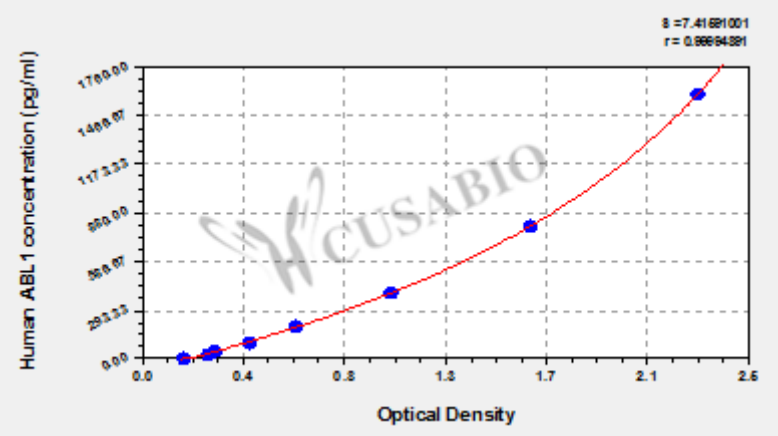
Recovery

The recovery of human ABL1 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)	92	88-97
EDTA plasma (n=4)	87	80-92

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	2.287	2.312	2.300	2.110
800	1.563	1.656	1.610	1.420
400	1.025	1.054	1.040	0.850
200	0.644	0.655	0.650	0.460
100	0.448	0.474	0.461	0.271
50	0.311	0.325	0.318	0.128
25	0.289	0.288	0.289	0.099
0	0.189	0.190	0.190	?

Msds

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