



Human Prohibitin(PHB) ELISA kit

Product Code	CSB-EL017885HU
Abbreviation	PHB
Protein Biological Process 1	Transcription/Transcription regulation
Target Name	prohibitin
Uniprot No.	P35232
Alias	PHB1
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	DNA synthesis
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	23.5 pg/mL-1500 pg/mL
Sensitivity	5.8 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	Cell Biology
Gene Names	PHB
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human PHB ELISA Kit was designed for the quantitative measurement of Human PHB protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 23.5 pg/mL-1500 pg/mL and the sensitivity is 5.8 pg/mL.

Target Details

Prohibitin is an evolutionarily conserved gene that is ubiquitously expressed. It is thought to be a negative regulator of cell proliferation and may be a tumor suppressor. Mutations in PHB have been linked to sporadic breast cancer. Prohibitin is expressed as two transcripts with varying lengths of 3 untranslated region. The longer transcript is present at higher levels in proliferating tissues and cells, suggesting that this longer 3 untranslated region may function as a trans-acting regulatory RNA.



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 PHB 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 %	84
	Range %	80-92
1:2	Average %	100
	Range %	95-108
1:4	Average %	89
	Range %	85-93
1:8	Average %	86
	Range %	81-90

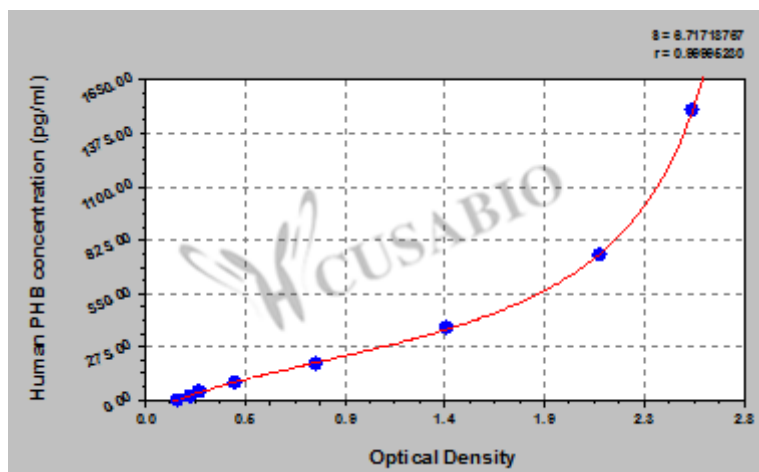
Recovery

The recovery of human PHB 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)	93	88-97
EDTA plasma (n=4)	96	90-101

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
1500	2.593	2.502	2.548	2.387
750	2.170	2.059	2.115	1.954
375	1.397	1.419	1.408	1.247
187.5	0.781	0.825	0.803	0.642
94	0.445	0.414	0.430	0.269
47	0.273	0.258	0.266	0.105
23.5	0.226	0.212	0.219	0.058
0	0.158	0.163	0.161	

Msds

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