



# Human Alpha-fetoprotein,AFP ELISA Kit

<b>Product Code</b>	CSB-E04770h
<b>Abbreviation</b>	AFP
<b>Protein Biological Process 1</b>	Tumor marker
<b>Target Name</b>	alpha-fetoprotein
<b>Uniprot No.</b>	P02771
<b>Alias</b>	FETA, HPAFP, OTTHUMP00000160480 alpha-1-fetoprotein alpha-fetoglobulin
<b>Product Type</b>	ELISA Kit
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Sample Types</b>	serum, plasma, cell culture supernates, tissue homogenates
<b>Detection Range</b>	1.563 ng/mL-100 ng/mL
<b>Sensitivity</b>	1.332 ng/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>	Cancer
<b>Gene Names</b>	AFP
<b>Tag Info</b>	quantitative
<b>Protein Description</b>	Sandwich

**Description**

This Human AFP ELISA Kit was designed for the quantitative measurement of Human AFP protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 1.563 ng/mL-100 ng/mL and the sensitivity is 1.332 ng/mL.

**Target Details**

This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly.



## 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.

	Intra-Assay Precision			Inter-Assay Precision		
Sample	1	2	3	1	2	3
n	20	20	20	20	20	20
Mean (ng/ml)	14.459	13.752	12.130	14.073	14.062	13.749
SD	0.021	0.029	0.039	0.011	0.024	0.018
CV(%)	3.501	5.060	7.450	1.848	4.060	3.145

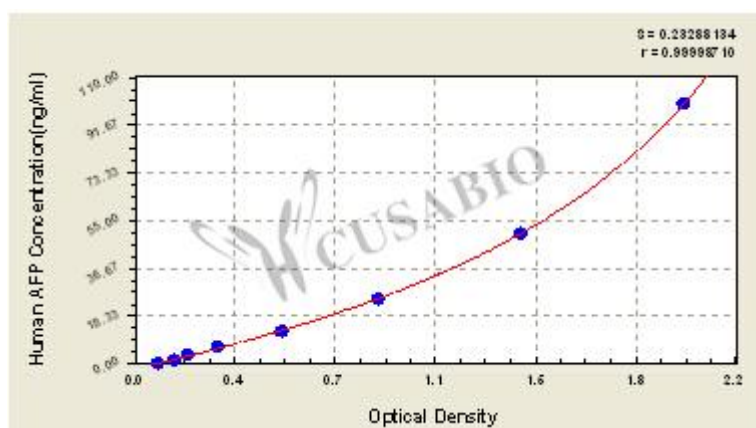
## Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human AFP 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 %	82-105
1:2	Average %	96
	Range %	91-101
1:4	Average %	93
	Range %	85-105
1:8	Average %	95
	Range %	90-100

## 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
0	0.096	0.092	0.094	
1.563	0.156	0.155	0.156	0.062
3.125	0.205	0.204	0.205	0.111
6.25	0.299	0.329	0.314	0.220
12.5	0.556	0.534	0.545	0.451
25	0.892	0.906	0.899	0.805
50	1.354	1.483	1.419	1.325
100	1.997	2.039	2.018	1.924

## Msd

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