



Rat Alpha-fetoprotein,AFP ELISA Kit

Product Code	CSB-E08281r
Abbreviation	AFP
Target Name	alpha-fetoprotein
Uniprot No.	P02773
Alias	FETA, HPAFP, OTTHUMP00000160480 alpha-1-fetoprotein alpha-fetoglobulin
Product Type	ELISA Kit
Immunogen Species	Rattus norvegicus (Rat)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	15.6 pg/mL-1000 pg/mL
Sensitivity	3.9 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	Afp
Tag Info	quantitative
Protein Description	Sandwich
Description	<p>This Rat AFP ELISA Kit was designed for the quantitative measurement of Rat AFP protein in serum, plasma, cell culture supernates, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 15.6 pg/mL-1000 pg/mL and the sensitivity is 3.9 pg/mL .</p>
Target Details	<p>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.</p>
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 rat 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)
1:20	Average %	85
	Range %	81-90
1:40	Average %	89
	Range %	82-94
1:80	Average %	101
	Range %	96-108
1:160	Average %	94
	Range %	89-99

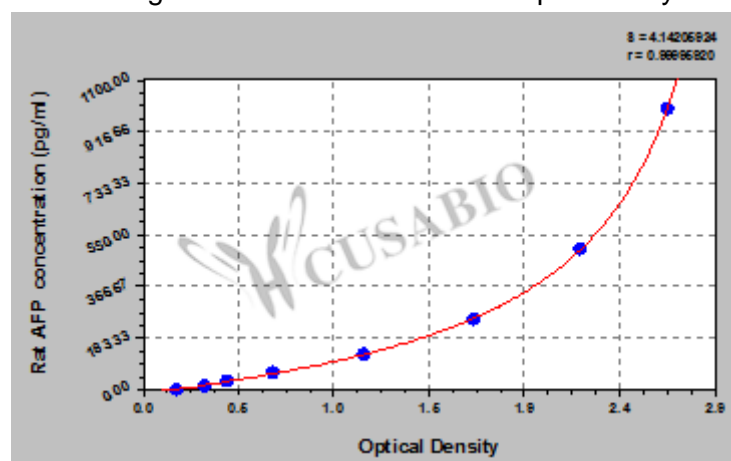
Recovery

The recovery of rat AFP 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)	90	86-94
EDTA plasma (n=4)	97	93-102

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
1000	2.701	2.631	2.666	2.478
500	2.239	2.212	2.226	2.038
250	1.710	1.663	1.687	1.499
125	1.097	1.174	1.136	0.948
62.5	0.651	0.695	0.673	0.485
31.2	0.427	0.459	0.443	0.255
15.6	0.337	0.317	0.327	0.139
0	0.192	0.184	0.188	?



Msds

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