

## ARG82975 Human alpha Fetoprotein ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG82975 Human alpha Fetoprotein ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human alpha Fetoprotein in serum, plasma, cell culture supernatant samples.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Cross-Reactivity: Not reacts with Human IL2, IL4, IL6, IL8, IL10, TNF alpha proteins; Mouse IL2, IL4, IL6, IL10, TNF beta proteins and Rat IL2, IL4, IL6, IL8, TNF beta proteins.
Target Name	alpha Fetoprotein
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.78 ng/ml
Sample Type	Serum, plasma and cell culture supernatants.
Standard Range	1.56 - 100 ng/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	Alpha-fetoprotein; HPAFP; FETA; Alpha-fetoglobulin; AFPD; Alpha-1-fetoprotein

### Application Instructions

Assay Time ~ 4 hours

### Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

### Bioinformation

Gene Symbol	AFP
Gene Full Name	alpha-fetoprotein
Background	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 hepatocarcinoma and with teratoma, and has prognostic value for managing advanced gastric cancer. 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. [provided by RefSeq, Oct 2019]

**Function**

Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties. [UniProt]

**PTM**

Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence.

Sulfated. [UniProt]

**Cellular Localization**

Secreted. [UniProt]