

Human AFP/alpha-fetoprotein ELISA Kit | AFP elisa kit

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CATALOG #
AAA258447

REACTIVITY
Human

PRODUCT SYNONYMS

AFP/alpha-fetoprotein; Human AFP/alpha-fetoprotein ELISA Kit; Alpha-fetoprotein ELISA Kit; Human; alpha-fetoprotein; AFPD ELISA Kit; FETA ELISA Kit; HPAFP ELISA Kit; AFP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	For the quantitative determination of Human AFP/alpha-fetoprotein concentration in serum.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Serum
Detection Range	15.63-1000pg/mL
Sensitivity	5.59pg/mL
Conjugation	HRP
Interference	Preparations of Leptin at 20ng/mL in a mid-range recombinant human AFP control were assayed for interference. No significant interference was observed
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

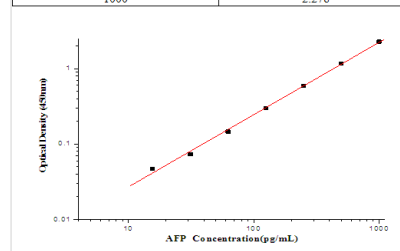
IMAGES

Recombinant human			
IL-1	IL-2	IL-33	IL-10
IL-8	TNF- α	IL-4	IL-6
IFN- γ	MIP-1 β	TIMP-1	TIMP-2
GM-CSF	SCF	PDGF	VEGF
Leptin			

Application Data

This assay recognizes both recombinant and natural Human AFP. The factors listed above were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed. Preparations of Leptin at 20ng/mL in a mid-range recombinant human AFP control were assayed for interference. No significant interference was observed.

Concentration (pg/mL)	Zero standard subtracted OD
0	0
15.63	0.047
31.25	0.073
62.5	0.146
125	0.301
250	0.593
500	1.173
1000	2.278



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.

ADDITIONAL INFORMATION

Related Product Information for AFP elisa kit	This Alpha-fetoprotein ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human Alpha-fetoprotein protein in Serum. It contains recombinant Human Alpha-fetoprotein, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: Alpha-fetoprotein (AFP) is classified as a member of the albuminoid gene superfamily consisting of albumin, AFP, vitamin D (Gc) protein, and alpha-albumin. AFP is a glycoprotein of 591 amino acids and a carbohydrate moiety. AFP is one of the several embryo-specific proteins and is a dominant serum protein as early in human embryonic life as one month, when albumin and transferrin are present in relatively small amounts. It is first synthesized in the human by the yolk sac and liver(1-2 months) and subsequently predominantly in the liver. A small amount of AFP is produced by the GI tract of the human conceptus. It has been proved that AFP may reappear in the serum in elevated amounts in adult life in association with normal restorative processes and with malignant growth. Alpha-fetoprotein (AFP) is a specific marker for hepatocellular carcinoma (HCC), teratoblastomas, and neural tube defect (NTD).
References	Mizejewski GJ. (2001) Alpha-fetoprotein Structure and Function: Relevance to Isoforms, Epitopes, and Conformational Variants. Exp Biol Med. 226(5): 377-408. Tomasi TB, et al. (1977) Structure and Function of Alpha-Fetoprotein. Annual Review of Medicine. 28: 453-65. Leguy MC, et al. (2011) Assessment of AFP in amniotic fluid: comparison of three automated techniques. Ann Biol Clin. 69(4): 441-6.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/afp-alpha-fetoprotein/258447>