

Human AFP PicoKine ELISA Kit | AFP elisa kit

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CATALOG #
AAA46179

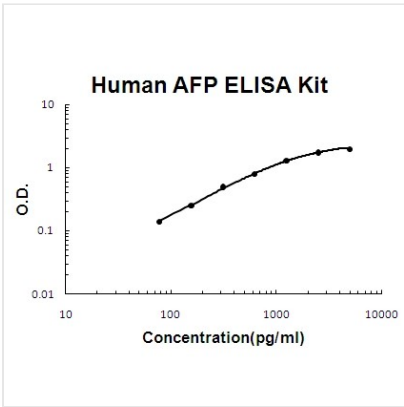
REACTIVITY
Human

PRODUCT SYNONYMS

AFP PicoKine; Human AFP PicoKine ELISA Kit; Alpha-fetoprotein; Afp; Alpha fetoglobulin; Alpha-fetoglobulin; Alpha fetoprotein; Alpha-1-fetoprotein; FETA; HPAFP; alpha fetoprotein; AFP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human AFP
Sequence Length	609
Assay Range	78pg/ml-5000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human AFP in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, R19-V609
Assay Procedure Step 1	Aliquot 0.1ml per well of 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 313pg/ml, 156pg/ml, 78pg/ml human AFP standard solutions into the pre-coated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each human AFP standard solution and each sample is measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 784 1507 3564 817 1785 4516 Standard deviation 49.39 97.96 185.33 65.36 130.31 365.80 CV(%) 6.3 6.5 5.2 8 7.3 8.1
Sample Data	Concentration(pg/ml) 0 78 156 312 625 1250 2500 5000 O.D. 0.003 0.137 0.248 0.486 0.777 1.260 1.704 1.925
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human AFP PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for AFP elisa kit	Principle of the assay: Human AFP ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for AFP has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: R19-V609) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for AFP is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human AFP amount of sample captured in plate. Background: Alpha-fetoprotein (AFP, alpha-fetoprotein; also sometimes called alpha-1-fetoprotein, alpha-fetoglobulin, or alpha fetal protein) is a protein that in humans is encoded by the AFP gene. The AFP gene is located on the q arm of chromosome 4 (4q25). AFP is the most abundant plasma protein found in the human fetus. Plasma levels decrease rapidly after birth but begin decreasing prenatally starting at the end of the first trimester. Normal adult levels are usually achieved by the age of 8 to 12 months. The function of AFP in adult humans is unknown; however, in rodents it binds estradiol to prevent the transport of this hormone across the placenta to the fetus. The main function of this is to prevent the virilization of female fetuses. As human AFP does not bind estrogen, its function in humans is less clear.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4501989
NCBI GeneID	174
NCBI Accession #	NP_001125.1
NCBI GenBank Nucleotide #	NM_001134.2
UniProt Accession #	P02771; B2RBU3
Molecular Weight	68,678 Da
NCBI Official Full Name	alpha-fetoprotein
NCBI Official Synonym Full Names	alpha fetoprotein
NCBI Official Symbol	AFP
NCBI Official Synonym Symbols	AFPD; FETA; HPAFP
NCBI Protein Information	alpha-fetoprotein
UniProt Protein Name	Alpha-fetoprotein

UniProt Gene Name	AFP
UniProt Synonym Gene Names	HPAFP
UniProt Entry Name	FETA_HUMAN

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-picokine/46179>