

Datasheet for KOA0373**Human AFP ELISA Kit****Overview**

Description:	Human AFP AccuSignal ELISA Kit - KOA0373
Item No.:	KOA0373
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	78 pg/ml - 5000 pg/ml

Product Details

Background:	Alpha-fetoprotein (AFP, α -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.
Synonyms:	Afp, Alpha fetoglobulin, Alpha-fetoglobulin, Alpha fetoprotein, Alpha-fetoprotein, Alpha-1-fetoprotein, FETA, HPAFP
Detection Kit Type:	ELISA Kit
Detection Range:	78 pg/ml - 5000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	AFP
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: R19-V609

Purity/Specificity: Natural and recombinant human AFP. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P78325](#)
- [NCBI - NP_001100.3](#)
- [GeneID - 101](#)
- [KOA0373 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. 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.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

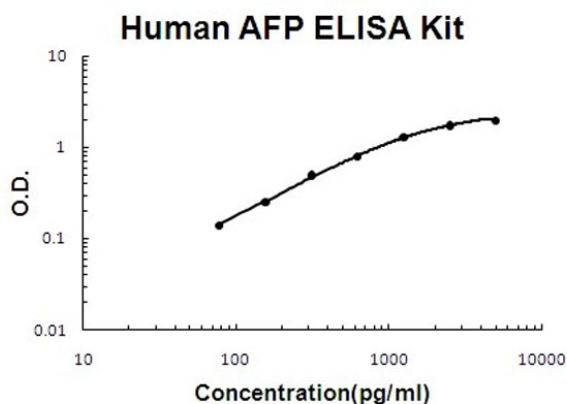
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human AFP ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.