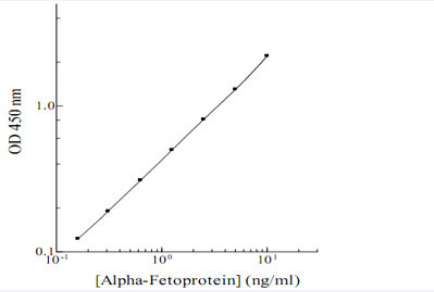
# AFP (Human) ELISA Kit

Catalog # KA1024 Size 1 Kit

## Applications




The standard curve is for the purpose of illustration only and should not be used to calculate unknowns. A standard curve should be generated each time the assay is performed.

## Specification

| | |
|---|---|
| **Product Description** | AFP (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of hu man AFP in plasma, serum, and cell culture supernatants. |
| **Suitable Sample** | Cell Culture Samples, cell lysate, Plasma and Serum |
| **Sample Volume** | 50 uL |
| **Label** | Peroxidase-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Quantitative |
| **Calibration Range** | 0.625 to 40 ng/mL |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store components of the kit at 4°C or -20°C as described in the protocol. |

## Applications

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- Quantification

## Gene Info — AFP

| | |
|---|---|
| **Entrez GeneID** | 174 |
| **Gene Name** | AFP |
| **Gene Alias** | FETA, HPAFP |
| **Gene Description** | alpha-fetoprotein |
| **Omim ID** | 104150 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | 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 persistance 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 |
| **Other Designations** | OTTHUMP00000160480\|alpha-1-fetoprotein\|alpha-fetoglobulin |

## Publication Reference

- Cryopreserved cGMP-compliant human pluripotent stem cell-derived hepatic progenitors rescue mice from acute liver failure through rapid paracrine effects on liver cells.

  Malika Gantier, Raphaël Rispal, Angélique Fourrier, Séverine Ménoret, Frédéric Delbos, Ignacio Anegon, Tuan Huy Nguyen.

  Stem Cell Research & Therapy 2024 Mar; 15(1):71.

  Application: Quant, Human, PSC, GStemHep cells

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- A novel agonist for the HGF receptor MET promotes differentiation of human pluripotent stem cells into hepatocyte-like cells.

  Yannick Tauran, Myriam Lereau-Bernier, Bertrand David Segard, Mathieu Danoy, Keiichi Kimura, Marie Shinohara, Arnaud Brioude, Yasuyuki Sakai, Hugo de Jonge, Oleg Melnyk, Jérôme Vicogne, Eric Leclerc.

  Development, Growth & Differentiation 2022 Dec; 64(9):527.

  Application: Quant, Human, Human iPS cells

- Biofunctionalized dendritic polyaniline nanofiber for in situ amplified glucometer-based enzyme immunoassay of tumor marker.

  Wu S, Chen J, Tian Y, Tang X, Li W, Li J.

  Analytical Methods 2015 Jan; 7(5):1843.

  Application: Quant, Human, Human serum

- Diagnosis of hepatocellular carcinoma.

  Gomaa AI, Khan SA, Leen EL, Waked I, Taylor-Robinson SD.

  World Journal of Gastroenterology 2005 Sep; 12(9):1036.

- Alpha-fetoprotein, stem cells and cancer: how study of the production of alpha-fetoprotein during chemical hepatocarcinogenesis led to reaffirmation of the stem cell theory of cancer.

  Sell S.

  Tumour Biology : the Journal of the International Society for Oncodevelopmental Biology and Medicine 2008 Jul; 29(3):161.

- Alpha-fetoprotein-producing lung carcinoma: report of three cases.

  Hiroshima K, Iyoda A, Toyozaki T, Haga Y, Baba M, Fujisawa T, Ishikura H, Ohwada H.

  Pathology International 2002 Jan; 52(1):46.

## Disease

- Carcinoma
- Liver Cirrhosis
- Liver Neoplasms

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