

# Human alpha-Fetoprotein/AFP antibody

Catalog Number: ATGA0488

## PRODUCT INFORMATION

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**Catalog number**

ATGA0488

**Clone No.**

AT73E10

**Product type**

Monoclonal Antibody

**UnitProt No.**

P02771

**NCBI Accession No.**

NP\_001125

**Alternative Names**

Alpha-fetoprotein, AFPD, FETA, HPAFP

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human AFP (19-609aa) purified from insect cell.

**Isotype**

IgG1 kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF, FACS

**Usage**

The antibody has been tested by ELISA, Western blot analysis, Flow cytometry and ICC/IF to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

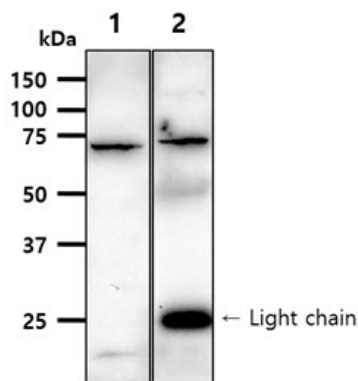
AFP, also known as alpha-fetoprotein, is a major plasma protein produced by the yolk sac and the liver during fetal development. It is thought to be the fetal form of serum albumin. This protein binds to copper, nickel, fatty acids and bilirubin. The main function of this is to prevent the virilization of female fetuses. As it does not bind estrogen, its function in humans is less clear.

### General References

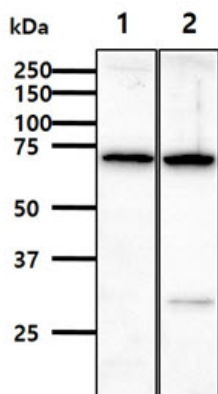
Tomasi TB Jr., (1997) Annu Rev Med. 28: 453-465.  
 Elbrecht A, et al. (1992) Science. 255: 467-470.

## DATA

### Western blot analysis (WB)



The cell and tissue lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AFP antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
 Lane 1.: HepG2 cell lysate  
 Lane 2.: Mouse liver tissue lysate

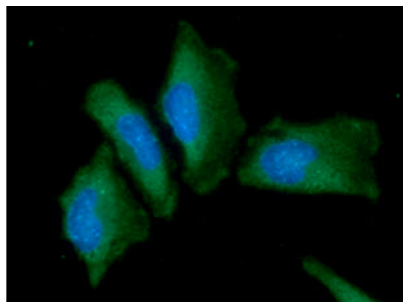


The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human AFP antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.  
 Lane 1.: Jurkat cell lysate  
 Lane 2.: Raw264.7 cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)

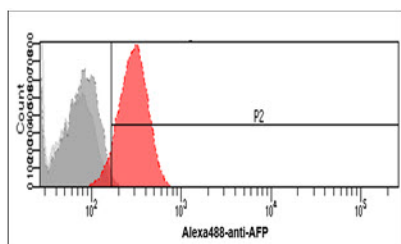
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ICC/IF analysis of AFP in HaLe cells. The cell was stained with ATGA0488 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

## Flow cytometry (FACS)



Flow cytometry analysis of AFP in HeLa cells. The cell was stained with ATGA0488 at 2-5ug for 1x10<sup>6</sup> cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).