

# AFP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1430c

## Product Information

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|--------------------------|------------------------|
| <b>Application</b>       | WB, IHC-P, E           |
| <b>Primary Accession</b> | <a href="#">P02771</a> |
| <b>Reactivity</b>        | Human                  |
| <b>Host</b>              | Rabbit                 |
| <b>Clonality</b>         | Polyclonal             |
| <b>Isotype</b>           | Rabbit IgG             |
| <b>Clone Names</b>       | RB13358                |
| <b>Calculated MW</b>     | 68678                  |
| <b>Antigen Region</b>    | 300-329                |

## Additional Information

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|---------------------------|--|
| <b>Gene ID</b>            | 174  |
| <b>Other Names</b>        | Alpha-fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin, AFP, HPAFP   |
| <b>Target/Specificity</b> | This AFP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 300-329 amino acids from the Central region of human AFP.              |
| <b>Dilution</b>           | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.  |
| <b>Format</b>             | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| <b>Storage</b>            | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.                                      |
| <b>Precautions</b>        | AFP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.  |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | AFP   |
| <b>Synonyms</b> | HPAFP   |
| <b>Function</b> | Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP shows estrogen-binding properties. |

**Cellular Location**

Secreted.

**Tissue Location**

Plasma. Synthesized by the fetal liver and yolk sac

## Background

Alpha-fetoprotein (AFP) is 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 persistence 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.

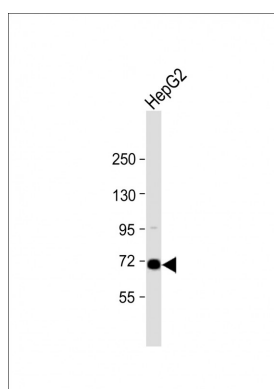
## References

Yamashita,T., Cancer Res. 68 (5), 1451-1461 (2008)

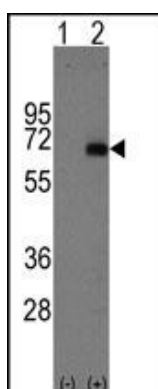
Chen,G.G., Eur J Surg Oncol 33 (7), 882-886 (2007)

Cajaiba,M.M., Pediatr. Dev. Pathol. 10 (3), 233-238 (2007)

## Images

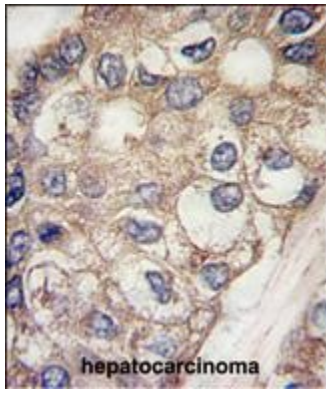


Anti-AFP Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of AFP (arrow) using rabbit polyclonal AFP Antibody (Center) (Cat.#AP1430c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AFP gene (Lane 2) (Origene Technologies).

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with AFP antibody (Center) (Cat.#AP1430c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.