

## LF-MA50002 anti-AFP (AP-1)

**Product Name**  
anti-AFP (AP-1)

**Pack Size**  
200 ul

**Description**  
Mouse monoclonal to AFP

**Immunogen**  
human  $\alpha$ -fetoprotein

**Clonality**  
Monoclonal Antibody

**Host**  
Mouse

**Clone#**  
AP-1

**Isotype**  
IgG2a

**Cross Reactivity**  
Hu

**Application**  
IHC-P (2.0-4.0 ug/ml)

**Concentration**  
0.5 ug/ul

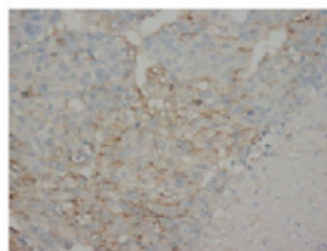
**Research Area**  
[Disease Marker](#)  
[Serum Protein](#)

**Background**  
 $\alpha$ -fetoprotein (AFP) is a major plasma protein in the fetus, where it is produced by the yolk sac and liver. Direct confirmation of the assignment of the AFP gene to chromosome 4 by in situ hybridization was provided by Harper and Dugaiczky (1983), who placed the gene in the q11-q22 region, the same region as the albumin gene. Structure and evolution of human  $\alpha$ -fetoprotein deduced from partial sequence of cloned cDNA. As the major fetal serum protein,  $\alpha$ -fetoprotein is not essential for embryonic development but is required for female fertility.

**Function**  
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

Image



IMMUNOHISTOCHEMICAL ANALYSIS of Human liver cancer (paraffin-embedded sections)

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**Database Link**

SwissProt : [P02771](#)

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**Reference**

1. D'Eustachio, P. et al. Murine alpha-fetoprotein and albumin: two evolutionarily linked proteins encoded on the same mouse chromosome. *Somat. Cell Genet.* 7: 289-294, 1981.
  2. Beattie, W. G. et al. Structure and evolution of human alpha-fetoprotein deduced from partial sequence of cloned cDNA. *Gene* 20: 415-422, 1982.
  3. Gabant, P. et al. Alpha-fetoprotein, the major fetal serum protein, is not essential for embryonic development but is required for female fertility. *Proc. Nat. Acad. Sci.* 99: 12865-12870, 2002.
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**Composition**

Each vial contains 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN<sub>3</sub> as preservative.

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**Storage**

At 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

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GENTAUR