



## Product Information Sheet

### Monoclonal Anti- $\alpha$ -Fetoprotein, AFP

**Catalogue No.** MA1001

**Lot No.** 08A12

**Clone:** AP-1

**Ig type:** mouse IgG2a

**Size:** 100 $\mu$ g/vial

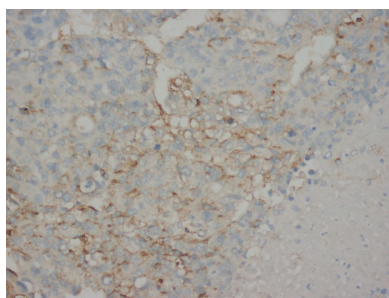
**Specificity**

Human.

No cross reactivity with other proteins.

**Recommended application**

*Immunohistochemistry(P)*



**Immunogen**

Human  $\alpha$ -fetoprotein

**Purification**

Purified by the goat anti-mouse IgG affinity chromatography.

**Application**

*Immunohistochemistry(P)*

At 2-4 $\mu$ g/ml to detect AFP in formalin fixed and paraffin embedded tissues.

*Other applications have not been tested.*

*Optimal dilutions should be determined by end user.*

**To reorder contact us at:**

**Antagene, Inc.**

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**email: Info@antageneinc.com**

**Formulation**

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

**Reconstitution**

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100 $\mu$ g/ml.

**Storage**

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

### 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

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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.

#### **REFERENCE**

1. D'Eustachio, P.; Ingram, R. S.; Tilghman, S. M.; Ruddle, F. H. : 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.; Dugaiczky, A. : Structure and evolution of human alpha-fetoprotein deduced from partial sequence of cloned cDNA. *Gene* 20: 415-422, 1982.
3. Gabant, P.; Forrester, L.; Nichols, J.; Van Reeth, T.; De Mees, C.; Pajack, B.; Watt, A.; Smitz, J.; Alexandre, H.; Szpirer, C.; Szpirer, J. : 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.