



**Anti Alpha-fetoprotein (human, AFP)
Mouse Monoclonal Antibody**

Subclass: IgG₁/κ

PRODUCT NO.

HYB 097-06

PRESENTATION

Preparation: Protein-A/G purified
Content: 1 ml, 1 mg/ml
Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15mM sodium azide
Storage: In the dark at 4-8°C

ANTIGEN

Alpha-fetoprotein (AFP) is a serum protein produced by hepatocytes. AFP levels are used as a tumor marker for hepatomas and germ cell tumors, and the serum concentration has prognostic significance in other diseases. Levels of AFP is 0.6-9.3 kIU/L in blood from normal individuals under the age of 40 (2). Concentrations raise with age and during pregnancy.
AFP consists of one single polypeptide chain of 590 aminoacids with MW 65 kDa (3).

IMMUNOGEN

Human alpha-fetoprotein isolated from amniotic fluid

SPECIFICITY

HYB 097-06 is specific for human AFP. Cross-reactivity to other species or similar molecules have not been investigated.

EPITOPE SPECIFICITY

Epitope belongs to group III (1) different from all other HYB 097 clones

REACTIVITY

K_a=19, determined as concentration of antibody giving half-maximal binding to hepatoma-AFP bound to solid phase (unit: 108 L/mol).

CULTURE MEDIUM

Dulbecco's modified Eagle's medium with 10% fetal calf serum

FUSION PARTNER

X63-Ag8.653.

IMMUNIZATION

Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH)₃

APPLICATION

Method	Usability	Dilution guideline	References
ELISA	Yes	1:100	2
Immunoblotting	Not determined		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determine the optimal dilutions for their own purpose.

REFERENCES

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- Gitling D (1975) Normal biology of alpha-fetoprotein. *Ann N Y Acad Sci* 259:7-16.
- Norgaard-Pedersen B, Larsen SO, Arends J, Svenstrup B, Tabor A (1990) Maternal serum markers in screening for Down syndrome. *Clin Genet* 37:35-43.

CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.