

**Anti-Alpha-fetoprotein (human, AFP)  
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

**HYB 097-04**

Clone: 10B8

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

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 adsorbed onto aluminum hydroxide gel

SPECIFICITY

HYB 097-04 is specific for human AFP. Cross-reactivity to other species or similar molecules have not been determined.

EPI TOPE SPECIFICITY

Epitope belongs to group II (1) a different group from HYB 097-06, -08 and -09.

REACTIVITY

Ka=190, determined as concentration of antibody giving half-maximal binding to hepatoma-AFP bound to solid phase (unit: 108 L/mol). HYB 097-04 reacts strongly with human AFP. A strong reaction is seen when tested in sandwich ELISA in combination with a polyclonal antibody against human AFP (eg. DAKO A0008).

CULTURE MEDIUM

RPMI 1640 with 2-10% fetal calf serum

FUSION PARTNER

X63-Ag8.653

IMMUNIZATION

Female CF1 x BALB/c mice immunized by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	
Immunoblotting	Not determined	
Immunohistochemistry	Not determined	

REFERENCES

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- Christiansen M, Hogdall CK, Andersen JR, Norgaard-Pedersen B (2001) Alpha-fetoprotein in plasma and serum of healthy adults: preanalytical, analytical and biological sources of variation and construction of age-dependent reference intervals. Scand J Clin Lab Invest 60:205-215.
- 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**

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