

Mouse Anti-AFP [C3]: MC0605, MC0605RTU7

Intended Use: For Research Use Only

Description: Alpha-fetoprotein (AFP) is the most abundant plasma protein found in the human fetus. It is thought to be the fetal form of serum albumin. AFP binds to copper, nickel, fatty acids and bilirubin and is found in monomeric, dimeric and trimeric forms. Alpha-Fetoprotein (AFP) is synthesized by the cells of the embryonic yolk sac, fetal liver and fetal intestinal tract. AFP levels decrease soon after birth. In abnormal tissues, expression of AFP has been demonstrated in hepatocellular carcinoma, hepatoid adenocarcinoma, germ cell tumors and particularly yolk sac tumor. The anti-AFP antibody may be useful for the identification of neoplastic liver diseases, yolk sac tumors and mixed germ cell tumors.

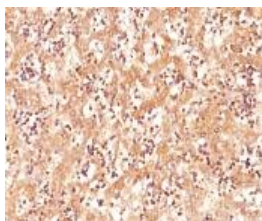
Specifications:

Clone: C3
Source: Mouse
Isotype: IgG2a/k
Reactivity: Human, monkey, dog, pig
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
Storage: Store at 2°- 8°C
Applications: IHC, Flow Cyt, IF
Package:

Description	Catalog No.	Size
AFP Concentrated	MC0605	1 ml
AFP Prediluted	MC0605RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Fetal liver, HCC
Concentrated Dilution: 50-200
Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual
* Result should be confirmed by an established diagnostic procedure.



FFPE human fetal liver stained with anti-AFP using DAB

References:

1. Specificity and affinity of 30 monoclonal antibodies against alpha-fetoprotein. Nustad K., et al. Tumor Biol 19: 293 -300, 1998.
2. Human alpha- fetoprotein epitopes as revealed by monoclonal antibodies. Yazova A.K., et al. Immunol. Lett. 25: 325-330, 1990. Monoclonal antibodies to different epitopes of human alpha-fetoprotein (AFP). Michell B., et al. Eur. J. Cancer Clin. Oncol. 19:1239-1246, 1983.
3. Derivation and characterization of a monoclonal hybridoma antibody specific for human alpha-fetoprotein. J. Immunol. Tsung K., et al. Methods 39: 363-368, 1980.

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