

30-2701: Anti-Alpha-Fetoprotein Antibody Biotin (Clone :AFP-01)

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| Clonality : | Monoclonal |
| Clone Name : | AFP-01 |
| Application : | IP,ICC,ELISA,WB |
| Reactivity : | Human |
| Conjugate : | Biotin |
| Gene : | AFP |
| Gene ID : | 174 |
| Uniprot ID : | P02771 |
| Format : | Purified |
| Alternative Name : | AFP, FETA, HPAFP |
| Isotype : | Mouse IgG1 |

Description

Alpha-fetoprotein (AFP) is present in fetal plasma, and it binds e.g. copper, nickel, and bilirubin. Measuring of alpha-fetoprotein level in amniotic fluid can reveal severe fetal defects. In adults, elevated AFP concentrations in the plasma can indicate hepatocellular carcinoma or teratoblastoma. In some individuals, hereditary persistence of alpha-fetoprotein can be observed without any obvious pathology.

Specificity: The mouse monoclonal antibody AFP-01 reacts with human alpha-Fetoprotein (AFP), a 70 kDa oncofetal antigen. AFP is a major fetal plasma protein, but is not present in healthy adult tissues. Elevated AFP concentrations in adult plasma may be an early marker of hepatocellular carcinoma or teratoblastoma, while high concentrations in amniotic fluid may indicate severe congenital defects of a fetus.

Product Info

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| Amount : | 0.1 mg |
| Purification : | Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography. |
| Content : | Concentration: 1 mg/ml Formulation : Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Storage condition : | Store at 2-8°C. Do not freeze. |

Application Note

ELISA: The antibody AFP-01 has been tested as the detection antibody in a sandwich ELISA for analysis of human alpha-fetoprotein in combination with antibody AFP-11.

Western blotting: Recommended dilution: 1-2 µg/ml; non-reducing conditions.

Immunoprecipitation: Interaction of the antibody AFP-01 with AFP is dependent on the presence of calcium ions (strongly inhibited by chelating agents). Such characteristics of the antibody can be exploited for immunoaffinity purification of APF under mild elution conditions.

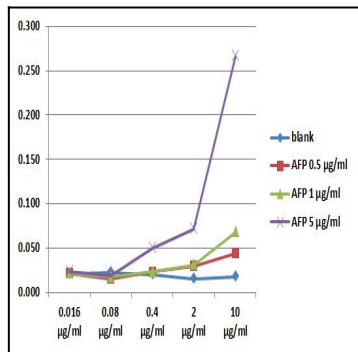


Figure :-ELISA analysis of alpha-fetoprotein (AFP) using biotin-conjugated detection antibody AFP-01. Different alpha-fetoprotein concentrations (0 - 5 $\mu\text{g/ml}$) and different detection antibody concentrations (0.016 - 10 $\mu\text{g/ml}$) were tested.