Monoclonal Antibody to alpha-Fetoprotein
Purified Antibody (0.1 mg)

Clone: AFP-01
Isotype: Mouse IgG1
Specificity: The 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.

Regulatory Status: RUO
Immunogen: purified alpha-Fetoprotein
Species Reactivity: Human, Other not tested
Application: Immunoprecipitation
Application note: 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 AFP under mild elution conditions.

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 (cat. no. 11-384-C100).

Western Blotting
Positive material: Hep G2 human hepatocellular carcinoma cell line
Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold Lysis buffer (1% laurylmaltoside in 20 mM Tris/Cl, 100 mM NaCl pH 8.2, 50 mM NaF including Protease inhibitor Cocktail). Incubate 60 min on ice. Centrifuge to remove cell debris. Mix lysate with non-reducing/reducing Laemmli SDS-PAGE sample buffer. Application note: Both non-reducing and reducing conditions.

Purity: > 95% (by SDS-PAGE)
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label

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