

Basic Information

Product Name	Anti-AFP Antibody	
Gene Name	AFP	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human AFP recombinant protein (Position: Q378-V609). Human AFP shares 71% and 73% amino acid (aa) sequences identity with mouse and rat AFP, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	69 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied.

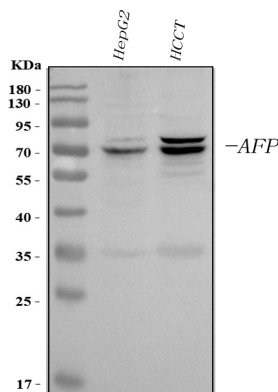
Background Information

AFP, also called Alpha-fetoprotein; alpha-fetoprotein, is a protein that in humans is encoded by the AFP gene. It is mapped to 4q13.3. The level of AFP in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly. In rodents AFP binds estradiol to prevent the transport of this hormone across the placenta to the fetus. The main function of this is to prevent the virilization of female fetuses. Moreover, it has an important role as a diagnostic marker, especially in certain tumors and liver diseases of childhood. AFP is also used to test the potential usefulness of plasma alpha fetoprotein determination as a diagnostic marker in biliary atresia, hepatitis, and yolk sac derived tumours.

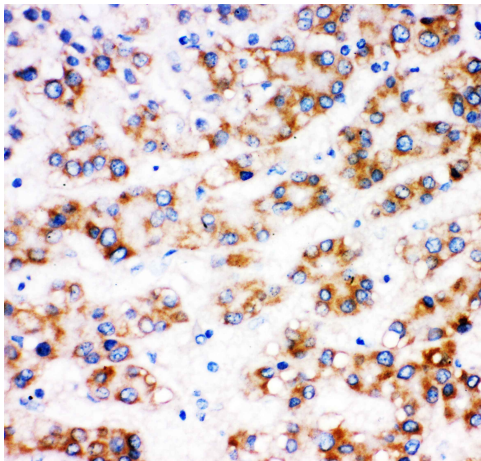
Reference

Anti-AFP Antibody被引用在8文献中。

Selected Validation Data



Western blot analysis of anti-AFP antibody (PB0090). The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HepG2 whole cell lysates, Lane 2: human hepatocellular carcinoma tumor tissue (HCCT) lysates. After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-AFP antigen affinity purified polyclonal antibody (PB0090) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for AFP at approximately 69 kDa. The expected band size for AFP is at 69 kDa.



IHC analysis of AFP using anti-AFP antibody (PB0090). AFP was detected in a paraffin-embedded section of human liver cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-AFP Antibody (PB0090) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.