

# AFP Antibody

✓ 100 µl  
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID #174  
Swiss-Prot Acc. #P02771

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Recombinant	H, M	70 kDa	Rabbit**

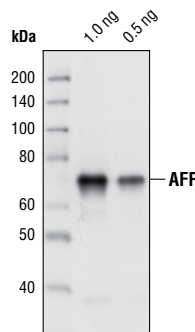
**Background:** Alpha-fetoprotein (AFP) is a 65 kDa glycoprotein found in the serum of the mammalian fetal liver, yolk sac and GI tract. Expression of AFP in adult cells is low. However, synthesis aberrantly occurs in adult liver cancer cells (1,2). The tumor suppressor gene p53 and β-catenin are both involved in the regulation of AFP expression. In normal adult cells p53 binds to the repressor region of the AFP gene, thereby blocking transcription. Mutations in both p53 and β-catenin are associated with aberrant expression of AFP. Elevated serum levels are predictive of hepatocellular carcinoma (3).

**Specificity/Sensitivity:** AFP Antibody detects recombinant human and mouse AFP protein. The antibody can only immunoprecipitate human AFP.

**Source/Purification:** Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the carboxy terminus of human AFP. Antibodies are purified by protein A and peptide affinity chromatography.

**Background References:**

- (1) Meier, V. et al. (2006) *Comp Hepatol* 5, 2.
- (2) Warnes, T.W. and Smith, A. (1987) *Baillieres Clin Gastroenterol* 1, 63-89.
- (3) Peng, S.Y. et al. (2004) *Int J Cancer* 112, 44-50.
- (4) Meier, V. et al. (2006) *Comp. Hepatol.* 5, 2.
- (5) Warnes, T.W. and Smith, A. (1987) *Baillieres Clin. Gastroenterol.* 1, 63-89.
- (6) Peng, S.Y. et al. (2004) *Int. J. Cancer* 112, 44-50.



Western blot analysis of recombinant AFP, using AFP Antibody.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

\*Species cross-reactivity is determined by western blot.

\*\*Anti-rabbit secondary antibodies must be used to detect this antibody.

**Recommended Antibody Dilutions:**

Western blotting 1:1000  
Immunoprecipitation 1:100

\*Immunoprecipitation only in human

For application specific protocols please see the web page for this product at [www.cellsignal.com](http://www.cellsignal.com).

Please visit [www.cellsignal.com](http://www.cellsignal.com) for a complete listing of recommended companion products.

**IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.**