

AFP Antibody

✓ 100 µl
(10 Western mini-blots)

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This product is for *in vitro* research use only and is not intended for use in humans or animals.
This product is not intended for use as a therapeutic or in diagnostic procedures.

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

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

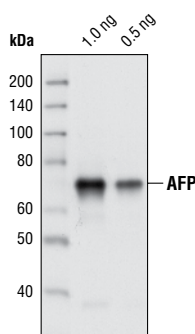
Background: Alpha-fetoprotein (AFP) is a 65 kDa glyco-protein found in the serum of the mammalian fetal liver, yolk sac and GI tract. Expression of AFP in adult cells is low, however synthesis aberrantly occurs in adult liver cancer cells (1,2). The tumor suppressor gene p53 and β-catenin are both involved in regulation of AFP expression. In normal adult cells p53 binds to the repressor region on 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 endogenous levels of total AFP protein in mouse and human cells. The antibody can only immunoprecipitate human AFP.

Source/Purification: Polyclonal antibodies are produced by immunizing rabbits with a synthetic peptide (KLH-coupled) 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.



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.

Companion Products:

- Anti-rabbit IgG, HRP-linked Antibody #7074
- Prestained Protein Marker, Broad Range (Premixed Format) #7720
- Phototope®-HRP Western Blot Detection System, Anti-rabbit IgG, HRP-linked Antibody #7071
- 20X LumiGLO® Reagent and 20X Peroxide #7003

Please visit 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.