

For Research Use Only

# AFP Polyclonal antibody

Catalog Number: 14550-1-AP **45 Publications**



## Basic Information

**Catalog Number:**

14550-1-AP

**Size:**

150UL, Concentration: 413 µg/ml by Bradford method using BSA as the standard;

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG6089

**GenBank Accession Number:**

BC027881

**GeneID (NCBI):**

174

**Full Name:**

alpha-fetoprotein

**Calculated MW:**

69 kDa

**Observed MW:**

68-72 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

IF 1:50-1:500

## Applications

**Tested Applications:**

IF, IHC, IP, WB, ELISA

**Cited Applications:**

CoIP, FC, IF, IHC, Pull-down, WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** human brain tissue, BxPC-3 cells, HepG2 cells, human heart tissue, rat brain tissue, SH-SY5Y cells, SW 1990 cells

**IP:** HepG2 cells,

**IHC:** human liver cancer tissue, human ovary tumor tissue

**IF:** MCF-7 cells,

## Background Information

AFP, also known as Alpha-fetoprotein, is a major plasma protein in the fetus and its concentration is very low in the adult. So AFP is usually considered a marker of hepatocyte precursors. AFP can be detected at abnormally high concentrations in hepatocellular carcinomas as well as in the plasma and ascitic fluid of adults with hepatoma. High AFP concentrations have been correlated with tumor cell growth, indicating that AFP can serve as a tumor marker.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jian Sun	27714143	Nanoscale	
Masahiro Yamamoto	28964793	Am J Pathol	IHC
Rance Nault	28922406	PLoS One	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

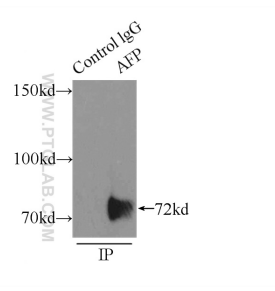
E: proteintech@ptglab.com  
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

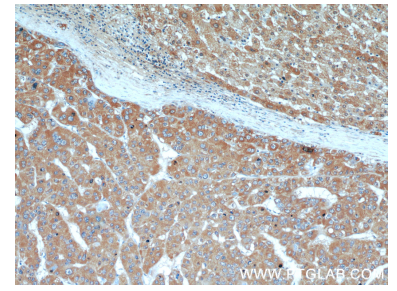
## Selected Validation Data



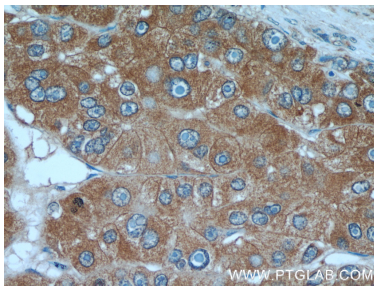
human brain tissue were subjected to SDS PAGE followed by western blot with 14550-1-AP (AFP antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



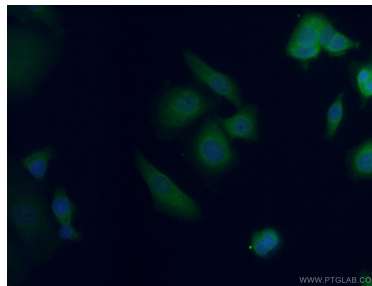
IP Result of anti-AFP (IP:14550-1-AP, 5ug; Detection:14550-1-AP 1:1000) with HepG2 cells lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer using 14550-1-AP (AFP antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 14550-1-AP (AFP antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using 14550-1-AP (AFP antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).