

For Research Use Only

# AFP Monoclonal antibody

Catalog Number: 67852-1-Ig



## Basic Information

Catalog Number: 67852-1-Ig	GenBank Accession Number: BC027881	Purification Method: Protein A purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 174	CloneNo.: 4B3E4
Source: Mouse	UNIPROT ID: P02771	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG1	Full Name: alpha-fetoprotein	
Immunogen Catalog Number: AG6089	Calculated MW: 69 kDa Observed MW: 68-72 kDa	

## Applications

Tested Applications:  
WB, IHC, ELISA

Species Specificity:  
human

**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 : HepG2 cells, HuH-7 cells, human testis tissue, human placenta tissue

IHC : human liver tissue, human liver cancer tissue

## Background Information

AFP (Alpha-fetoprotein) is a major plasma protein in the fetus and its concentration is very low in the adult (PMID:24120489). AFP can be detected at abnormally high concentrations in hepatocellular carcinomas as well as in the plasma and ascitic fluid of adults with hepatoma, indicating that AFP can serve as a tumor marker (PMID: 18669658). AFP is also a glycosylated protein and based on its binding capability to lectin Lens Culinaris Agglutinin (LCA), and total AFP can be separated into three different glycoforms, AFP-L1, AFP-L2, and AFP-L3. Core-fucosylated form of AFP (AFP-L3) is a more specific indicator than total AFP for HCC (PMID: 33128033, 35458505)

## Storage

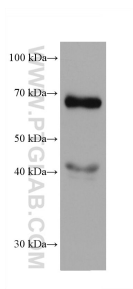
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

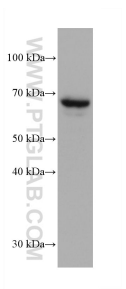
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

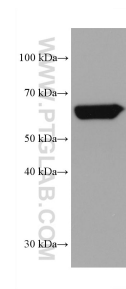
Selected Validation Data



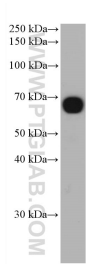
HuH-7 cells were subjected to SDS PAGE followed by western blot with 67852-1-Ig (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



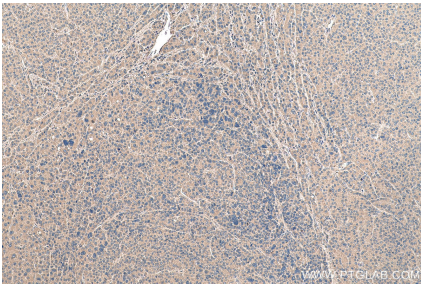
HepG2 cells were subjected to SDS PAGE followed by western blot with 67852-1-Ig (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



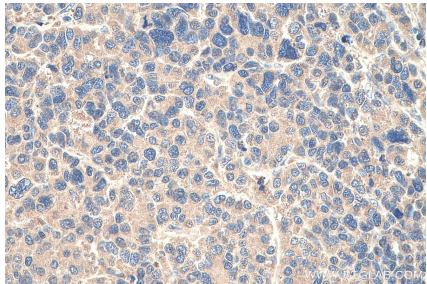
human testis tissue were subjected to SDS PAGE followed by western blot with 67852-1-Ig (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



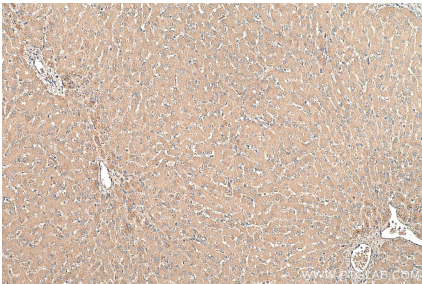
human placenta tissue were subjected to SDS PAGE followed by western blot with 67852-1-Ig (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



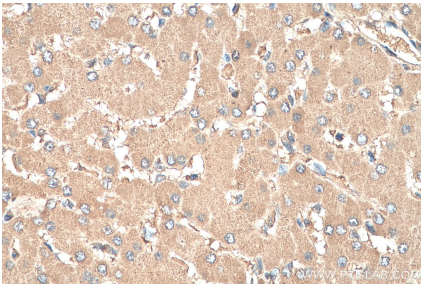
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67852-1-Ig (AFP antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67852-1-Ig (AFP antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67852-1-Ig (AFP antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67852-1-Ig (AFP antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).