

For Research Use Only

AFP Recombinant antibody, PBS Only

Catalog Number: 81083-1-PBS

Featured Product



Basic Information

Catalog Number:

81083-1-PBS

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6089

GenBank Accession Number:

BC027881

GeneID (NCBI):

174

UNIPROT ID:

P02771

Full Name:

alpha-fetoprotein

Calculated MW:

69 kDa

Observed MW:

68-72 kDa

Purification Method:

Protein A purification

CloneNo.:

2D17

Applications

Tested Applications:

WB, IHC, Indirect ELISA

Species Specificity:

human

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS only

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

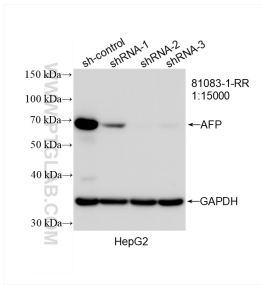
T: 4006900926

E: Proteintech-CN@ptglab.com

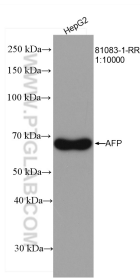
W: ptgcn.com

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

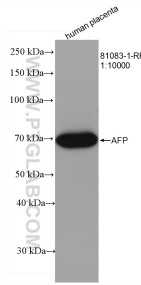
Selected Validation Data



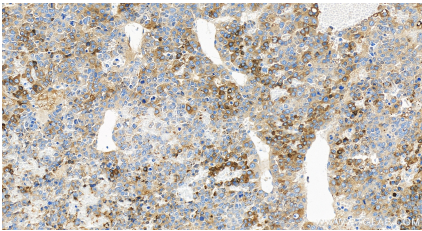
WB result of AFP antibody (81083-1-RR; 1:15000; incubated at room temperature for 1.5 hours) with sh-Control and sh-AFP transfected HepG2 cells. This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



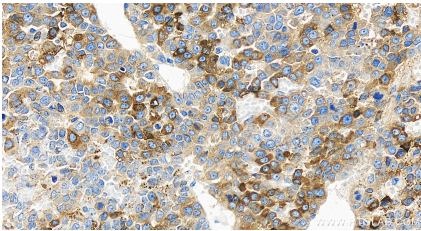
HepG2 cells were subjected to SDS PAGE followed by western blot with 81083-1-RR (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



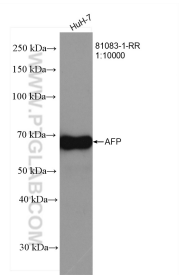
human placenta were subjected to SDS PAGE followed by western blot with 81083-1-RR (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



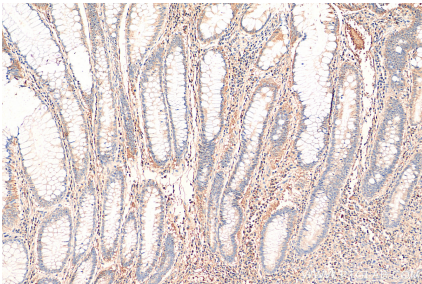
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81083-1-RR (AFP antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



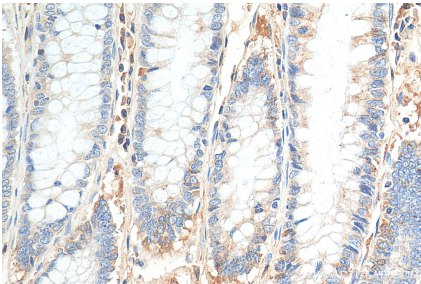
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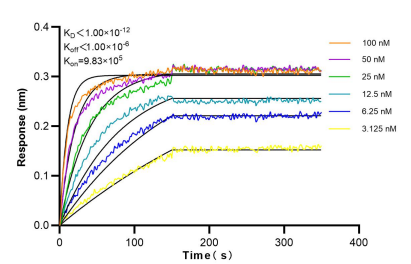
HuH-7 cells were subjected to SDS PAGE followed by western blot with 81083-1-RR (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81083-1-RR (AFP antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 81083-1-RR (AFP antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 81083-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 81083-1-RR against Human AFP were performed. The affinity constant is below 1 pM.