

For Research Use Only

AFP Recombinant antibody

Catalog Number:82982-5-RR



Basic Information

Catalog Number: 82982-5-RR	GenBank Accession Number: BC027881	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 174	CloneNo.: 230435A2
Source: Rabbit	UNIPROT ID: P02771	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: alpha-fetoprotein	
	Calculated MW: 69 kDa	
	Observed MW: 68-72 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : HepG2 cells, HuH-7 cells, human placenta IF/ICC : HepG2 cells,
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 -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

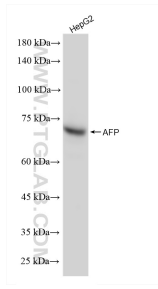
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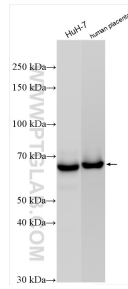
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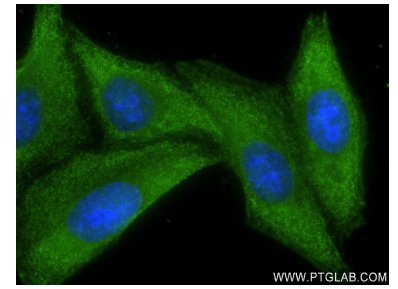
Selected Validation Data



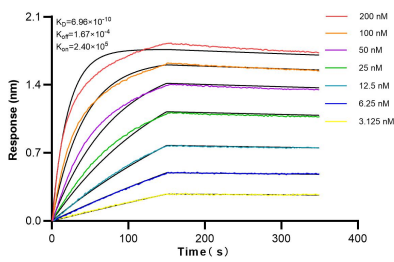
HepG2 cells were subjected to SDS PAGE followed by western blot with 82982-5-RR (AFP antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 82982-5-RR (AFP antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using AFP antibody (82982-5-RR, Clone: 230435A2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 82982-5-RR against Human AFP were performed. The affinity constant is 0.696 nM.