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AFP Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1430c

Product Information

Application	WB, IHC-P, E
Primary Accession	P02771
Reactivity	Human
Predicted	Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB13358
Calculated MW	68678
Antigen Region	300-329

Additional Information

Gene ID	174
Other Names	Alpha-fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin, AFP, HPAFP
Target/Specificity	This AFP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 300-329 amino acids from the Central region of human AFP.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AFP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AFP
Synonyms	HPAFP
Function	Binds copper, nickel, and fatty acids as well as, and bilirubin less well than, serum albumin. Only a small percentage (less than 2%) of the human AFP

shows estrogen-binding properties.

Cellular Location Secreted.

Tissue Location Plasma. Synthesized by the fetal liver and yolk sac

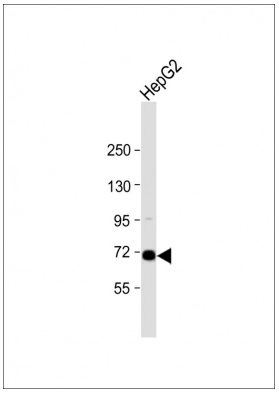
Background

Alpha-fetoprotein (AFP) is a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistance of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly.

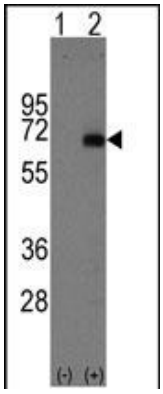
References

Yamashita,T., Cancer Res. 68 (5), 1451-1461 (2008)
Chen,G.G., Eur J Surg Oncol 33 (7), 882-886 (2007)
Cajaiba,M.M., Pediatr. Dev. Pathol. 10 (3), 233-238 (2007)

Images

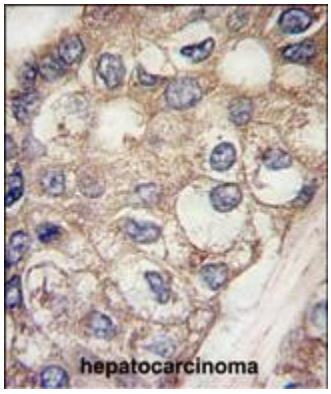


Anti-AFP Antibody (Center) at 1:1000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 69 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot analysis of AFP (arrow) using rabbit polyclonal AFP Antibody (Center) (Cat.#AP1430c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AFP gene (Lane 2) (Origene Technologies).

Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with AFP antibody (Center) (Cat.#AP1430c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use



of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.