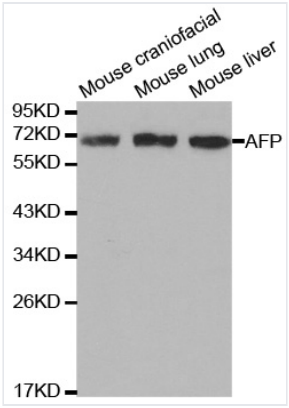
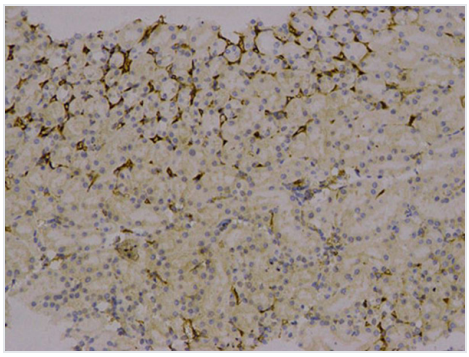
AFP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

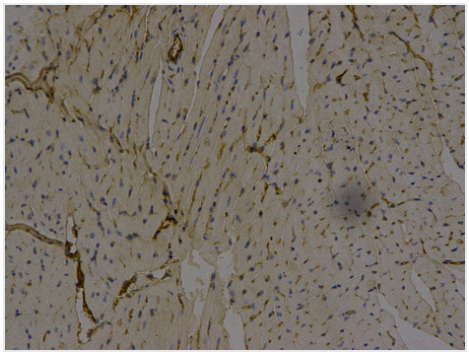
Product Name	AFP, Polyclonal Antibody
Full Product Name	AFP Antibody
Product Gene Name	anti-AFP antibody
Product Synonym Names	AFP; FETA; Alphafetoglobulin; alphafetoprotein; Alpha1fetoprotein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Concentration	1.0 mg/ml (lot specific)
Specificity	The antibody detects endogenous level of total AFP protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	68,678 Da
OMIM	104150
3D Structure	ModBase 3D Structure for P02771
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human AFP.
Target Name	AFP
Product Categories/Family for anti-AFP antibody	Total protein Ab
Applications Tested/Suitable for anti-AFP antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-AFP antibody	Western blotting: 1:500 - 1:2000 Immunohistochemistry: 1:50 - 1:200 Immunofluorescence: 1:10 - 1:100
Related Product Information for anti-AFP antibody	Alpha-fetoprotein (AFP) is a 65 kDa glycoprotein found in the serum of the mammalian fetal liver, yolk sac, and GI tract. While AFP expression in adult cells is low, it is aberrantly expressed in adult liver cancer cells (1,2). The tumor suppressor gene p53 and b-catenin are both involved in the regulation of AFP expression. In normal adult cells, p53 binds to the repressor region of the AFP gene, thereby blocking transcription. Mutations in both p53 and b-catenin are associated with aberrant expression of AFP. Elevated serum levels are predictive of hepatocellular carcinoma (3).
Other Notes	Small volumes of anti-AFP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AFP purchase	MBS9403088 is an antibody targeting AFP. Also known as AFP Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Western Blot (WB) of anti-AFP antibody
Western blot analysis of extracts of various cell lines, using AFP antibody.



Immunohistochemistry (IHC) of anti-AFP antibody
Immunohistochemical analysis of paraffin-embedded human bladder cancer using AFP antibody at dilution of 1:200 (200x lens).



Immunohistochemistry (IHC) of anti-AFP antibody
Immunohistochemical analysis of paraffin-embedded human stomach cancer using AFP antibody at dilution of 1:200 (200x lens).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AFP. It may not necessarily be applicable to this product.

NCBI GI #	4501989
NCBI GeneID	174
NCBI Accession #	NP_001125.1
UniProt Primary Accession #	P02771
UniProt Secondary Accession #	B2RBU3
UniProt Related Accession #	P02771
GenBank Nucleotide #	NM_001134.2
NCBI Official Full Name	alpha-fetoprotein
NCBI Official Synonym Full Names	alpha-fetoprotein
NCBI Official Symbol	AFP
NCBI Official Synonym Symbols	AFPD; FETA; HPAFP
UniProt Protein Name	Alpha-fetoprotein
UniProt Synonym Protein Names	Alpha-1-fetoprotein; Alpha-fetoglobulin
Protein Family	Alpha-fetoprotein
UniProt Gene Name	AFP
UniProt Synonym Gene Names	HPAFP

UniProt Entry Name	FETA_HUMAN
NCBI Protein Information	alpha-fetoprotein
NCBI Summary for AFP	This gene encodes alpha-fetoprotein, 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. [provided by RefSeq, Jul 2008]
UniProt Comments for AFP	AFP: 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. Dimeric and trimeric forms have been found in addition to the monomeric form. Plasma. Synthesized by the fetal liver and yolk sac. Belongs to the ALB/AFP/VDB family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q13.3 Cellular Component: extracellular space; cytoplasm Molecular Function: metal ion binding Biological Process: transport; progesterone metabolic process; ovulation from ovarian follicle Disease: Alpha-fetoprotein Deficiency; Alpha-fetoprotein, Hereditary Persistence Of
Research Articles on AFP	**1.** Suggest preoperative serum level of CA19-1 may be more useful than CEA, CA72-4, AFP and CA125 levels as a prognostic factor in gastric cancer.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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