

Rabbit Anti-AFP/Biotin Conjugated antibody

SL4821R-Bio

Product Name	Anti-AFP/Biotin
Chinese Name	生物素标记的甲胎蛋白 AFP 抗体
Alias	Alpha Fetoprotein; Alpha-fetoprotein; AFP; alpha 1 fetoprotein; Alpha-1-fetoprotein; Alpha-fetoglobulin; alpha fetoglobulin; alpha Fetoprotein; Alpha fetoprotein precursor; FETA; HPAFP; FETA_HUMAN.
Research Area	Tumour Cell biology immunology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse,Rat
Applications	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	65kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Alpha Fetoprotein
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: Alpha 1 Fetoprotein 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 persistence 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. Expression has been documented in human adrenal, liver, ovary, testis, and pancreas. ESTs have been isolated from normal human brain, liver/spleen, embryo and uterus tissue libraries.

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.

Subunit:

Dimeric and trimeric forms have been found in addition to the monomeric form.

Subcellular Location:

Secreted.

Tissue Specificity:

Plasma. Synthesized by the fetal liver and yolk sac.

Post-translational modifications:

Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence.
Sulfated.

Similarity:

Belongs to the ALB/AFP/VDB family.

Database links:

[Entrez Gene: 174](#) Human

[Omim: 104150](#) Human

[SwissProt: P02771](#) Human

[Unigene: 518808](#) Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

AFP 是由胚胎卵黄囊细胞，胚胎肝细胞和胎儿肠道细胞合成的一种 glycoprotein。主要用于原发性或转移性肝细胞癌、肝样胃癌和性腺或性腺外某些生殖细胞 Tumour(如内胚窦瘤)的诊断和鉴别诊断。AFP 敏感度较低，特异性强，大约 60%左右的肝细胞肝癌阳性，在低分化 Tumour 中常呈阳性表达。