



Rabbit Anti-alpha 1 Fetoprotein antibody

SL8616R

Product Name:	alpha 1 Fetoprotein
Chinese Name:	甲胎蛋白抗体
Alias:	Alpha Fetoprotein; Alpha-fetoprotein; AFP; alpha 1 fetoprotein; Alpha-1-fetoprotein; Alpha-fetoglobulin; alpha fetoglobulin; alpha Fetoprotein; Alpha fetoprotein precursor; FETA; HPAFP; FETA_MOUSE.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Mouse,Rat,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	65kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from mouse alpha 1 Fetoprotein:501-605/605
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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. Contains 3 albumin domains.

SWISS:

P02772

Gene ID:

11576

Database links:

[Entrez Gene: 174](#)Human

[Entrez Gene: 11576](#)Mouse

[Entrez Gene: 24177](#)Rat

[Omim: 104150](#)Human

[SwissProt: P02771](#)Human

[SwissProt: P02772](#)Mouse

[SwissProt: P02773](#)Rat

[Unigene: 518808](#)Human

[Unigene: 358570](#)Mouse

[Unigene: 9174](#)Rat

Important Note:

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

www.sunlongbiotech.com