



AFP alpha 1 Fetoprotein Monoclonal Antibody(17C5)

Catalog No	YP-Ab-00627
Isotype	IgG
Reactivity	Human
Applications	WB;IHC;IF;
Gene Name	AFP
Immunogen	Synthetic Peptide of AFP alpha 1 Fetoprotein
Specificity	The antibody detects endogenous AFP proteins.
Formulation	PBS, pH 7.4, containing 0.5%BSA, 0.02% sodium azide as Preservative and 50% Glycerol.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB: 1:2000 IF 1:200 IHC 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Alpha fetoglobulin;alpha fetoprotein;Alpha-1-fetoprotein;Alpha-fetoglobulin;Alpha-fetoprotein;AFP;HPAFP
Observed Band	70kD
Calculated Molecular Weight	70kD
Cell Pathway	Secreted.
Tissue Specificity	Plasma. Synthesized by the fetal liver and yolk sac.
Function	developmental stage:Occurs in the plasma of fetuses more than 4 weeks old, reaches the highest levels during the 12th-16th week of gestation, and drops to trace amounts after birth. The serum level in adults is usually less than 40 ng/ml. AFP occurs also at high levels in the plasma and ascitic fluid of adults with hepatoma.,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.,online information:Alpha-fetoprotein entry,PTM:Independent studies suggest heterogeneity of the N-terminal sequence of the mature protein and of the cleavage site of the signal sequence.,PTM:Sulfated.,similarity:Belongs to the ALB/AFP/VDB family.,similarity:Contains 3 albumin domains.,subunit:Dimeric and trimeric forms have



been found in addition to the monomeric form.,tissue

Background

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 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. [provided by RefSeq, Jul 2008],

matters needing attention

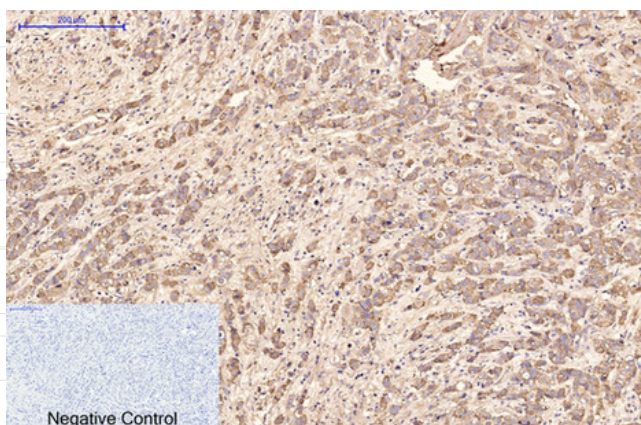
Avoid repeated freezing and thawing!

Usage suggestions

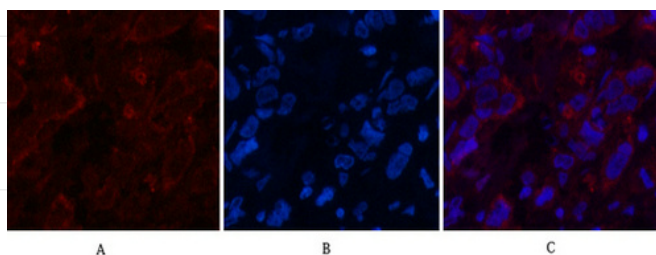
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



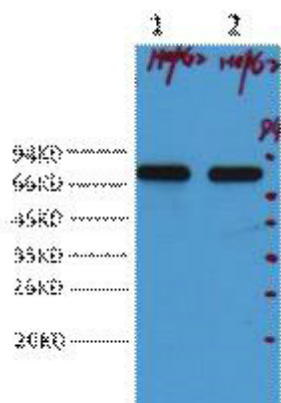
Products Images



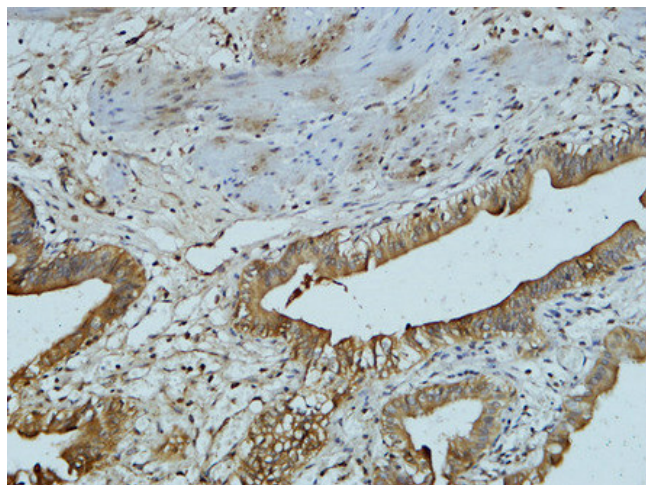
Immunohistochemical analysis of paraffin-embedded Human-breast-cancer tissue. 1, AFP alpha 1 Fetoprotein Monoclonal Antibody(17C5) was diluted at 1:200(4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, Secondary antibody was diluted at 1:200(room temperature, 30min). Negative control was used by secondary antibody only.



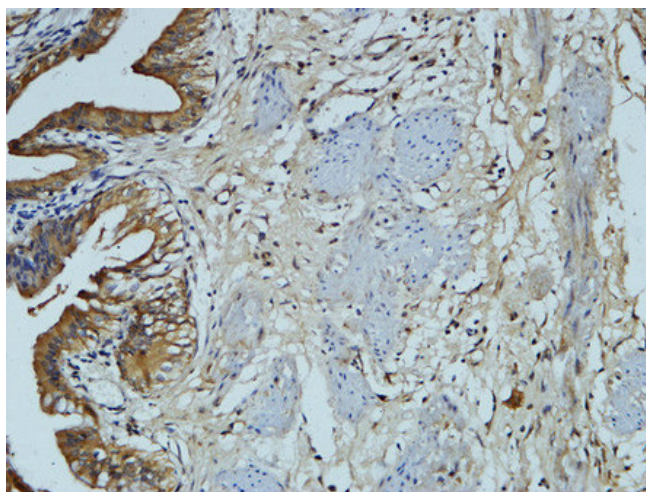
Immunofluorescence analysis of Human-breast-cancer tissue. 1, AFP alpha 1 Fetoprotein Monoclonal Antibody(17C5)(red) was diluted at 1:200(4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min). 3, Picture B: DAPI(blue) 10min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western blot analysis of HepG2, diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded Human gallbladder. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).



Immunohistochemical analysis of paraffin-embedded Human gallbladder. 1, Antibody was diluted at 1:100(4° overnight). 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 30min).