



Alpha-1-Fetoprotein(AFP) mouse mAb(PT0679)

Catalog No	YP-Ab-00635
Isotype	IgG
Reactivity	Human
Applications	WB
Gene Name	AFP
Immunogen	Synthesized peptide derived from human Alpha-1-Fetoprotein(AFP)
Specificity	This antibody detects endogenous levels of human Alpha-1-Fetoprotein(AFP)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Mouse, Monoclonal/IgG1, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000;ELISA 1:5000-20000
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;Alpha-1-Fetoprotein(AFP);Alpha-fetoprotein (Alpha-1-fetoprotein) (Alpha-fetoglobulin)
Observed Band	68-72 kDa
Calculated Molecular Weight	69 kDa
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