Best Tools for immunology Research

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

Catalog No :	YM4089
Reactivity :	Human;Mouse;Rat;
Applications :	WB;IF;ELISA
Target :	AFP
Fields :	>>Hippo signaling pathway
Gene Name :	AFP
Protein Name :	Alpha-1-Fetoprotein(AFP)
Human Gene Id :	174
Human Swiss Prot No :	P02771
Immunogen :	Synthesized peptide derived from human Alpha-1-Fetoprotein(AFP) AA range: 350-450
Specificity :	This antibody detects endogenous levels of AFP protein.
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG1, kappa
Dilution :	WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	69kD
Observed Band :	69kD

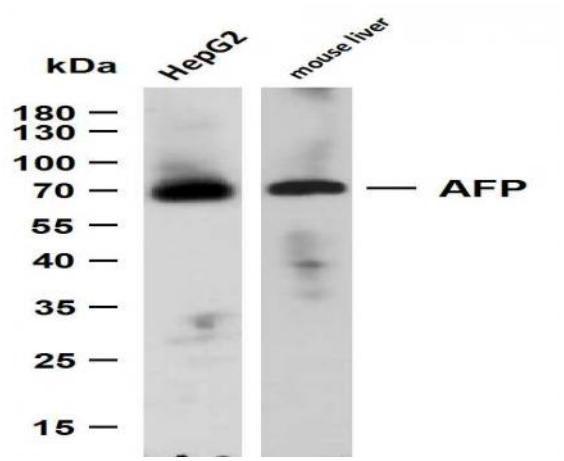
Background : This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistance of alpha-fetoprotein may also be found in individuals 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],

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

Subcellular Location : Cytoplasmic

Expression : Plasma. Synthesized by the fetal liver and yolk sac.

Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-AFP (PT0679) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: HepG2 Lane 3: mouse liver