

## Product datasheet for **AM09237PU-N**

### alpha 1 Fetoprotein (AFP) Mouse Monoclonal Antibody [Clone ID: AFP-Y1]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	AFP-Y1
Applications:	ELISA, IP, R, WB
Recommended Dilution:	<b>Western blot:</b> The antibody identifies 68kD AFP. <b>Radioimmunoassay.</b> <b>ELISA:</b> This monoclonal AFP antibody can be used as a Capture antibody in a Sandwich ELISA for Human AFP Detection in combination with a HRP labeled tracer antibody. <i>Suggested Capture Coating Dose:</i> 0.1 µg/well. Substrate: TMB <b>Purification of natural Human AFP.</b> <b>Immunoprecipitation</b> (Qualitative and quantitative).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Human AFP, which was isolated from amniotic fluid and purified by Affinity Chromatography.
Specificity:	This antibody reacts with Human AFP. No detectable cross-reaction with Human normal serum proteins.
Formulation:	0.01M PBS, pH 7.0 without preservatives. State: Aff - Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. After reconstitution, aliquot and store at -20°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	alpha fetoprotein



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**Database Link:** [Entrez Gene 174 Human P02771](#)

**Background:** Alpha 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.

**Synonyms:** Alpha-1-fetoprotein, Alpha-fetoglobulin, HPAFP

**Protein Families:** Druggable Genome, Secreted Protein