

AM00786PU-N**Monoclonal Antibody to Alpha-fetoprotein / AFP - Purified****Alternate names:**

Alpha-1-fetoprotein, Alpha-fetoglobulin, HPAFP

Quantity:

1 mg

Concentration:

4.71 mg/ml (OD280nm, E0.1% = 1.4)

Background:

Alpha fetoprotein is a 68kD plasma protein found in fetuses over four weeks old, produced by the yolk sac and the fetal liver, with the highest concentration reached during the 12th to 16th week of gestation. It binds and transports various ligands such as bilirubin, fatty acids, steroids, heavy metals and various drugs. After birth, plasma levels drop to trace amounts in healthy adults.

Elevated AFP levels are indicative of certain cancers, particularly hepatocellular carcinoma, cancer of the testes or ovaries or a malignant teratoma. During pregnancy increased levels of AFP may indicate neural tube defects such as spina bifida, while decreased levels could indicate Down's syndrome.

Uniprot ID:[P02771](#)**NCBI:**[NP_001125.1](#)**GeneID:**[174](#)**Host / Isotype:**

Mouse / IgG1

Recommended Isotype Controls:

SM10P (for use in human samples), AM03095PU-N

Clone:

057-11301

Immunogen:

Human AFP

Format:**State:** Liquid purified IgG fraction (> 90% pure by SDS-PAGE)**Purification:** Affinity Chromatography on Protein A**Buffer System:** 10mM Phosphate, pH 7.4 containing 150mM Sodium Chloride**Preservatives:** 0.09% Sodium Azide**Applications:**

ELISA.

Recommended pair for sandwich immunoassay:

Capture: AM00787PU-N

Detection: AM00786PU-N

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

This antibody recognizes Alpha Fetoprotein (AFP).

Species: Human.

Other species not tested.

Add. Information:

Centrifuge before opening to ensure complete recovery of vial contents.

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.