

Product datasheet for **SM3089P**

alpha 1 Fetoprotein (AFP) Mouse Monoclonal Antibody [Clone ID: AFP-01]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AFP-01
Applications:	ELISA, IF, IP, WB
Recommended Dilution:	Immunoprecipitation: Interaction of the antibody with AFP is dependent on the presence of calcium ions (strongly inhibited by chelating agents). Such characteristics of the antibody can be exploited for immunoaffinity purification of APF under mild elution conditions. ELISA: The antibody has been tested as the detection antibody in a Sandwich ELISA for analysis of human alpha-Fetoprotein in combination with clone AFP-11 (cat. no. SM3090P). Western blot: 1-2 µg/ml; non-reducing conditions. <i>Positive Material:</i> Hep G2 human hepatocellular carcinoma cell line.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified alpha-Fetoprotein
Specificity:	The antibody reacts with 70 kDa alpha-Fetoprotein (AFP).
Formulation:	Phosphate buffered saline (PBS), pH~7.4 with 15 mM Sodium Azide as preservative State: Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE)
Concentration:	lot specific
Purification:	Precipitation Methods
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	alpha fetoprotein
Database Link:	Entrez Gene 174 Human P02771



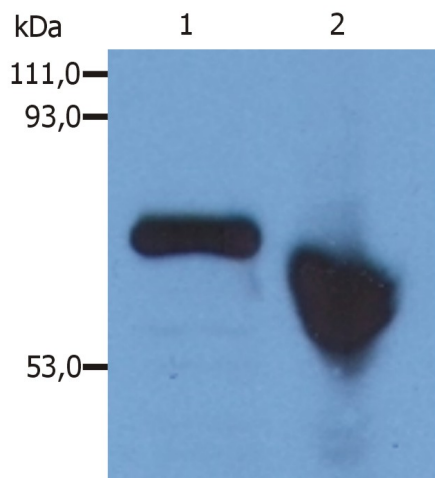
[View online »](#)

Background:

AFP is an oncofetal antigen. AFP is a major fetal plasma protein, but is not present in healthy adult tissues. Elevated AFP concentrations in adult plasma may be an early marker of hepatocellular carcinoma or teratoblastoma, while high concentrations in amniotic fluid may indicate severe congenital defects of a fetus.

Synonyms:

Alpha-1-fetoprotein, Alpha-fetoglobulin, HPAFP

Product images:

Western Blotting analysis of human alpha-Fetoprotein in Hep G2 human hepatocellular carcinoma cell line. Lane 1: immunostaining with anti-human alpha-Fetoprotein (AFP-01); reducing conditions Lane 2: immunostaining with anti-human alpha-Fetoprotein (AFP-01); non-reducing conditions