



Catalog Number: 12177-MM35

General Information	
Immunogen:	Recombinant Human AFP / alpha-fetoprotein Protein (Catalog#12177-H08H)
Specificity:	Human AFP / alpha-fetoprotein
Clone ID:	35
Ig Type:	Mouse IgG1
Applications:	Flow Cytometry
Formulation:	0.2 µm filtered solution in PBS
Storage:	< -20 °C

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human AFP / alpha-fetoprotein (rh AFP / alpha-fetoprotein; Catalog#12177-H08H; P02771; Met1-Val609). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.

Specificity

Human AFP / alpha-fetoprotein

Storage

This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. **Preservative-Free.**

Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. **Avoid repeated freeze-thaw cycles.**

Background

Alpha-fetoprotein (AFP) is classified as a member of the albuminoid gene superfamily consisting of albumin, AFP, vitamin D (Gc) protein, and alpha-albumin. AFP is a glycoprotein of 591 amino acids and a carbohydrate moiety. AFP is one of the several embryo-specific proteins and is a dominant serum protein as early in human embryonic life as one month, when albumin and transferrin are present in relatively small amounts. It is first synthesized in the human by the yolk sac and liver(1-2 months) and subsequently predominantly in the liver. A small amount of AFP is produced by the GI tract of the human conceptus. It has been proved that AFP may reappear in the serum in elevated amounts in adult life in association with normal restorative processes and with malignant growth. Alpha-fetoprotein (AFP) is a specific marker for hepatocellular carcinoma (HCC), teratoblastomas, and neural tube defect (NTD).

Reference

Mizejewski GJ. (2001) Alpha-fetoprotein Structure and Function: Relevance to Isoforms, Epitopes, and Conformational Variants. *Exp Biol Med.* 226(5): 377-408.
Tomasi TB, *et al.* (1977) Structure and Function of Alpha-Fetoprotein. *Annual Review of Medicine.* 28: 453-65.
Leguy MC, *et al.* (2011) Assessment of AFP in amniotic fluid: comparison of three automated techniques. *Ann Biol Clin.* 69(4): 441-6.

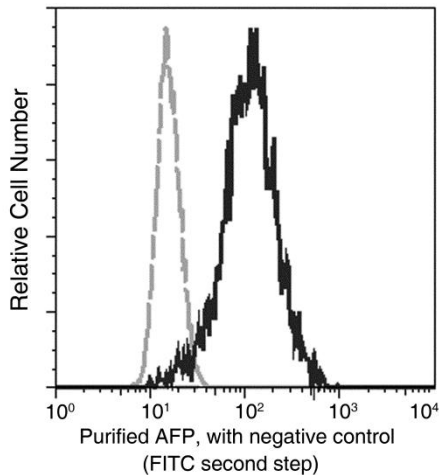


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Applications

Flow Cytometry –

FCM: 0.5-2 µg/Test



Flow cytometric analysis of Human AFP expression on HepG2 cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human AFP, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.

Flow cytometry was performed on a BD FACSCalibur flow cytometry system.

Please refer to www.sinobiological.com/Flow-Cytometry-FACS-Protocols-a-750.html for technical protocols.