

Human α-Fetoprotein/AFP Antibody

Monoclonal Mouse IgG₁ Clone # 189506

Catalog Number: MAB1369

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human α-Fetoprotein in direct ELISAs.		
Source	Monoclonal Mouse IgG ₁ Clone # 189506		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Human umbilical cord serum-derived α-Fetoprotein		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.		
APPLICATIONS			
Please Note: Optimal diluti	ons should be determined by ea	ch laboratory for each applica	ation. General Protocols are available in the Technical Information section on our website.
		Recommended Concentration	Sample
Immunocytochemist	ry	8-25 μg/mL	Immersion fixed HepG2 human hepatocellular carcinoma cell line
Intracellular Staining	g by Flow Cytometry	2.5 μg/10 ⁶ cells	HepG2 human hepatocellular carcinoma cell line fixed with paraformaldehyde and permeabilized with saponin
PREPARATION AND S	STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.		

BACKGROUND

AFP (α-Fetoprotein) is a 69-73 kDa member of the ALB/AFP/VDB family of proteins. α-Fetoprotein is a major plasma protein in the fetus. Its concentration is normally low in the adult except when produced by certain tumors. It is secreted by fetal liver and serves as a carrier molecule for phytoestrogens, heavy metals (Cu and Ni), estrogen and fatty acids. Mature human AFP is 591 amino acids (aa) in length. It contains three albumin domains (aa 19-210, 211-402 and 403-601), plus 15 intrachain disulfide bonds. Mature human AFP shares approximately 66% aa identity with mouse AFP.

References:

- 1. Matsumura, M. et al. (2001) Hepatol. Res. 20:84
- 2. Deutsch, H.F. et al. (2000) Tumor Biol. 21:267

