

Human α-Fetoprotein/AFP Antibody

Monoclonal Mouse IgG₁ Clone # 214107

Catalog Number: MAB13691

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects purified human α-Fetoprotein/AFP in Western blots.	
Source	Monoclonal Mouse IgG ₁ Clone # 214107	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Human umbilical cord serum-derived α-Fetoprotein/AFP	
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 dilution	tions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.	
	Recommended Sample Concentration	
Western Blot		
Western Blot PREPARATION AND S	Concentration 1 μg/mL Human α-Fetoprotein/AFP under non-reducing conditions only	
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PREPARATION AND S	Concentration 1 μg/mL Human α-Fetoprotein/AFP under non-reducing conditions only STORAGE	

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

