

Mouse α-Fetoprotein/AFP Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF5369

DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse α-Fetoprotein/AFP in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with huma Fetoprotein is observed.		
Source	Polyclonal Goat IgG		
Purification	Antigen Affinity-purified		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse α-Fetoprotein/AFP Lys19-Val605 Accession # P02772		
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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

DATA

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below

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Detection of Mouse α-Fetoprotein/AFP by Western Blot. Western blot shows lysates of mouse plasma and rat placenta tissue. PVDF membrane was probed with 1 μ g/mL of Mouse α-Fetoprotein/AFP Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5369) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for α-Fetoprotein/AFP at approximately 70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. It is secreted by fetal liver and serves as a carrier molecule for phytoestrogens, heavy metals (Cu and Ni), estrogen and fatty acids. Mature mouse AFP is 587 amino acids (aa) in length. It contains three albumin domains (aa 20-201, 208-393 and 400-591), plus 15 intrachain disulfide bonds. Rat AFP contains an alternate start site at Met287 that may generate an intracellular 37 kDa form. Mouse AFP also shows an analogous site at Met281 that may produce an equivalent isoform. Over aa 19-605, mouse AFP shares 83% and 66% aa identity with rat and human AFP, respectively.

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