**Mouse α-Fetoprotein/AFP Antibody**

**Antigen Affinity-purified Polyclonal Goat IgG**

**Catalog Number:** AF5369

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**DESCRIPTION**

Species Reactivity: Mouse

Specificity: Detects mouse α-Fetoprotein/AFP in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with human α-Fetoprotein is observed.

Source: Polyclonal Goat IgG

Purification: Antigen Affinity-purified

Immunogen: Mouse myeloma cell line NS0-derived recombinant mouse α-Fetoprotein/AFP

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.

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**APPLICATIONS**

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.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
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<tr>
<td>1 μg/mL</td>
<td>See Below</td>
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**DATA**

**Western Blot**

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 μg/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 Buffer Group 8.

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**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.

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**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.