

**DESCRIPTION**

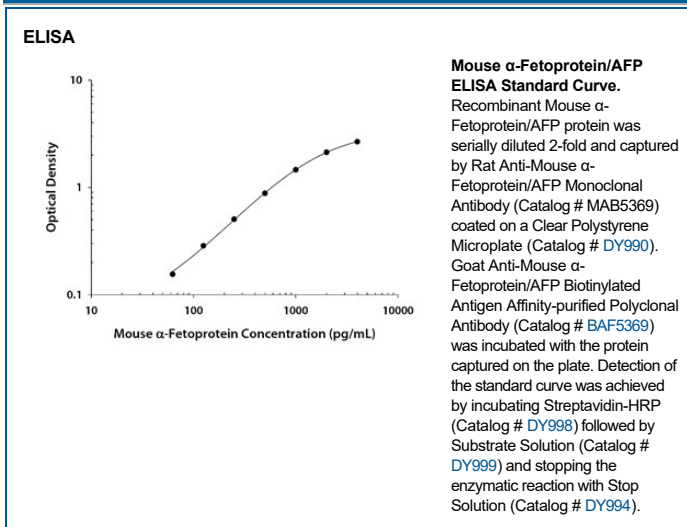
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse alpha-Fetoprotein in direct ELISA.
<b>Source</b>	Monoclonal Rat IgG <sub>1</sub> Clone # 870826
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse alpha-Fetoprotein/AFP Lys19-Val605 Accession # P02772
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m 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 $\mu$ m filtered solution in PBS.

**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.

<b>ELISA</b>	<p>This antibody functions as an ELISA capture antibody when paired with Goat Anti-Mouse <math>\alpha</math>-Fetoprotein/AFP Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF5369).</p> <p>This product is intended for assay development on various assay platforms requiring antibody pairs. We recommend the Mouse alpha-Fetoprotein/AFP DuoSet ELISA Kit (Catalog # DY5369-05) for convenient development of a sandwich ELISA.</p>
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**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

AFP ( $\alpha$ -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.