

## DESCRIPTION

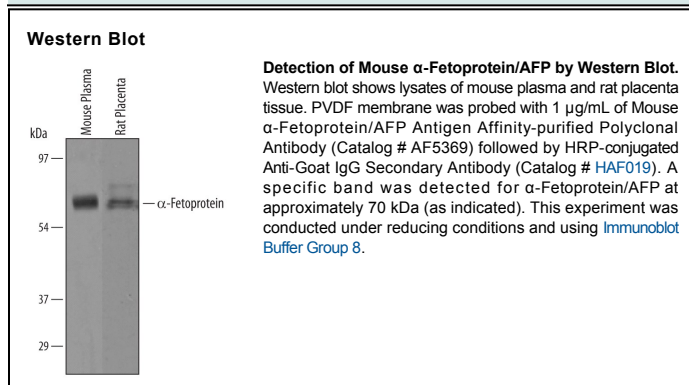
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse $\alpha$ -Fetoprotein/AFP in direct ELISAs and Western blots. In direct ELISAs, approximately 10% cross-reactivity with human $\alpha$ -Fetoprotein is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<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 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	1 $\mu$ g/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 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>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <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.