

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse IGFALS/ALS in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse IGFALS/ALS Thr28-Cys603 Accession # P70389
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse IGFALS/ALS

## 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.
<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

ALS (Acid labile subunit) is an 84-86 kDa glycoprotein member of the leucine rich repeat superfamily of molecules. It is secreted by hepatocytes in response to growth hormone stimulation, and forms a 140-150 kDa ternary complex with IGFBP3 (or IGFBP5) and IGF-I. This complex increases the half-life of IGF-I and retains it in the circulation for use in multiple tissues. Mature mouse ALS is 580 amino acids (aa) in length (aa 24-603). It contains twenty-one 20-23 aa LRRs that participate in protein-protein interactions. There are two potential isoform variants that show N-terminal extensions. One contains a 66 aa substitution for aa 1-5, while another possesses an 89 aa substitution again for aa 1-5. Over aa 28-603, mouse ALS shares 79% and 93% aa identity with human and rat ALS, respectively.