

**DESCRIPTION**

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Lipin 3 in direct ELISAs and Western blots. In direct ELISAs and Western blots, approximately 50% cross-reactivity with recombinant human (rh) Lipin 3 is observed and less than 5% cross-reactivity with rhLipin 1 and rhLipin 2 is observed.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant mouse Lipin 3 Thr428-Arg529 Accession # Q99PI4
<b>Formulation</b>	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**

**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 Lipin 3
<b>Immunocytochemistry</b>	5-15 µg/mL	Immersion fixed CCD-18co human colon fibroblast cell line

**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**

Mouse Lipin 3 is a 94 kDa member of the small Lipin family of nuclear proteins. It is primarily expressed in the GI tract and may play a role in DAG production or membrane synthesis. Lipin 3 is 848 amino acids (aa) in length. It shows conserved N- and C-terminal domains that flank an NLS between aa 135-144. Lipin 3 has modest phosphatidate phosphatase activity. Two potential isoforms exist; one shows a deletion of aa 507-537, while the other shows a 10 aa insertion between Glu 506 and Ser 507. Over aa 428-549, mouse Lipin 3 shares 84% and 96% aa sequence identity with human and rat Lipin 3, respectively.