

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Collectrin in Western blots. In Western blots, approximately 40% cross-reactivity with recombinant human Collectrin is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Collectrin Glu15-Ile144 Accession # Q9ESG4
<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 Collectrin

## 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

Collectrin (also Transmembrane protein 27) is a 37-43 kDa member of the MEM27 family of proteins. It is expressed on pancreatic β-cells where it regulates insulin secretion, and on renal tubular epithelium where it mediates amino acid transport. Mature mouse Collectrin is a 208 amino acid (aa) type I transmembrane glycoprotein. It contains a 127 aa extracellular region (aa 15-141) and a 60 aa cytoplasmic domain (aa 163-222). Collectrin dimerizes on the cell surface, and undergoes proteolytic cleavage to generate a 26 kDa soluble fragment. Over aa 15-144, mouse Collectrin shares 92% and 86% aa identity with rat and human Collectrin, respectively.