

## DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CRISP-4 in Western blots. In Western blots, less than 5% cross-reactivity with recombinant mouse CRISP-1, -2, and -3 is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Chinese hamster ovary cell line CHO-derived recombinant mouse CRISP-4 Leu23-Lys250 Accession # NP_084309
<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 CRISP-4

## 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

CRISP-4 (cysteine-rich secretory protein 4) is a secreted, 31 kDa member of the CRISP family of proteins. In mouse, its expression is limited to the epididymis, seminal vesicle and vas deferens and it appears to bind to differentiating sperm. Mature mouse CRISP-4 is 230 amino acids (aa) in length. It contains an SCP (sperm coating protein) region (aa 42-178) followed by a C-terminal CRISP domain (aa 196-250). There appears to be an alternate start site four amino acids upstream of the standard start site. Over aa 22-550, mouse CRISP-4 shares 90% aa identity with rat CRISP-4 and 64% aa identity with human CRISP-1, the human ortholog to mouse CRISP-4.