

**DESCRIPTION**

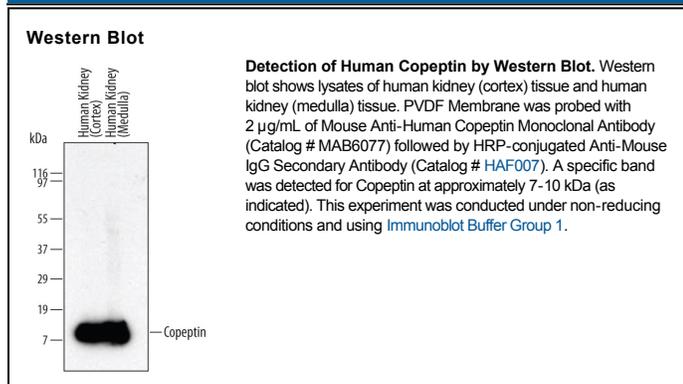
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Copeptin in Western blots.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 579021
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Peptide corresponding to the human Copeptin precursor Ala126-Gly140 Accession # P01185
<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 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>	2 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 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**

Copeptin is a 39 amino acid glycosylated peptide that is a proteolytic product derived from a precursor which also contains Vasopressin and Neurophysin 2 peptides. The precursor protein is synthesized and cleaved in the hypothalamus before transport to the pituitary for storage and release. Copeptin is secreted in equimolar amounts with Vasopressin. It is more stable than Vasopressin and serves as a surrogate indicator of Vasopressin release. Vasopressin plays a major role in blood pressure regulation through control of water retention in the kidney and vascular tone. Serum levels of Copeptin are associated with metabolic syndrome, insulin resistance, sepsis, and heart dysfunction following myocardial infarction. Human Copeptin shares 79% sequence identity with mouse and rat Copeptin.