

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Copeptin in Western blots.
Source	Monoclonal Mouse IgG ₁ Clone # 579021
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Peptide corresponding to the human Copeptin precursor Ala126-Gly140 Accession # P01185
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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