

## Anti-Pre-Pro-Vasopressin

Our Pre-Pro-Vasopressin rabbit polyclonal primary antibody from PhosphoSolutions is produced in-hous Catalog # AN1603

## **Product Information**

ApplicationWB, IHC, ICCPrimary AccessionP01185HostRabbitClonalityPolyclonalIsotypeIgG

## **Additional Information**

Other Names ADH antibody, Antidiuretic hormone antibody, Arginine vasopressin

neurophysin II antibody, ARVP antibody, AVP antibody, AVP NPII antibody, copeptin antibody, Vasopressin neurophysin II copeptin antibody, VP

antibody

**Target/Specificity** Vasopressin is a nine amino-acid peptide hormone that plays a key role in

water and blood pressure homeostasis (Qureshi S., et al 2014). Vasopressin is the end-product of a highly processed 164 amino acid pre-pro-peptide. Processing of the vasopressin pre-pro-peptide results in three distinct peptides with a 1:1:1 ratio: vasopressin, neurophysin II, and copeptin (Arroyo J.P. et al, 2021). Vasopressin is the biologically active hormone, neurophysin II

is a carrier molecule for vasopressin, and copeptin is the c-terminal

glycosylated end-product. Vasopressin has been thought to be primarily made in the brain, and the sole source of vasopressin stimulating vasopressin V2 receptors in the kidney until recent studies (Arroyo JP, et al 2022). This antibody specially detects uncleaved pre-pro-vasopressin, accurately identifying locally produced vasopressin versus peripheral uptake of

hypothalamic vasopressin or related peptides (Arroyo J.P. et al, 2022). This key

research tool aided the Arroyo group in discovering immunoreactive vasopressin outside of the brain by recognizing localized vasopressin in

human and mouse kidney, specifically in the distal nephron.

**Dilution** WB~~1:1000 IHC~~1:100~500 ICC~~N/A

**Format** Antigen Affinity Purified from Pooled Serum

**Storage** Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** Anti-Pre-Pro-Vasopressin is for research use only and not for use in diagnostic

or therapeutic procedures.

Shipping Blue Ice

## **Background**

Vasopressin is a nine amino-acid peptide hormone that plays a key role in water and blood pressure homeostasis (Qureshi S., et al 2014). Vasopressin is the end-product of a highly processed 164 amino acid pre-pro-peptide. Processing of the vasopressin pre-pro-peptide results in three distinct peptides with a 1:1:1 ratio: vasopressin, neurophysin II, and copeptin (Arroyo J.P. et al, 2021). Vasopressin is the biologically active hormone, neurophysin II is a carrier molecule for vasopressin, and copeptin is the c-terminal glycosylated end-product. Vasopressin has been thought to be primarily made in the brain, and the sole source of vasopressin stimulating vasopressin V2 receptors in the kidney until recent studies (Arroyo JP, et al 2022). This antibody specially detects uncleaved pre-pro-vasopressin, accurately identifying locally produced vasopressin versus peripheral uptake of hypothalamic vasopressin or related peptides (Arroyo J.P. et al, 2022). This key research tool aided the Arroyo group in discovering immunoreactive vasopressin outside of the brain by recognizing localized vasopressin in human and mouse kidney, specifically in the distal nephron.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.