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Anti-Pre-Pro-Vasopressin

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

Product Information

Application	WB, IHC, ICC
Primary Accession	P01185
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	17325

Additional Information

Gene ID	551
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.