

**AVP Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5558C****Specification**

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**AVP Antibody (Center) - Product Information**

Application	IF, IHC-P, WB,E
Primary Accession	<a href="#">P01185</a>
Other Accession	<a href="#">NP_000481.2</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	102-129

**AVP Antibody (Center) - Additional Information****Gene ID** 551**Other Names**

Vasopressin-neurophysin 2-copeptin, AVP-NP11, Arg-vasopressin, Arginine-vasopressin, Neurophysin 2, Neurophysin-II, Copeptin, AVP, ARVP, VP

**Target/Specificity**

This AVP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 102-129 amino acids of human AVP.

**Dilution**

IF~~1:10~50

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

AVP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**AVP Antibody (Center) - Protein Information****Name** AVP

**Synonyms** ARVP, VP

**Function** [Neurophysin 2]: Specifically binds vasopressin.

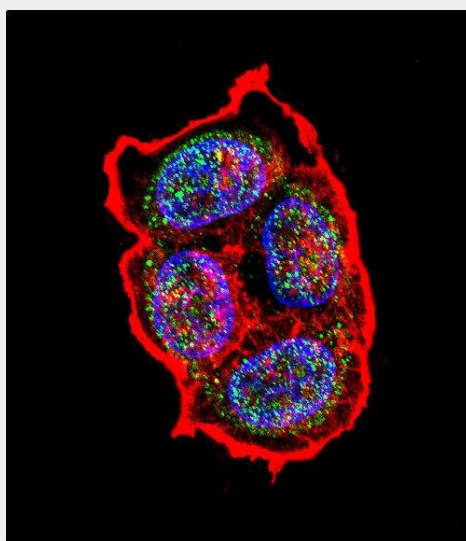
**Cellular Location**  
Secreted.

### AVP Antibody (Center) - Protocols

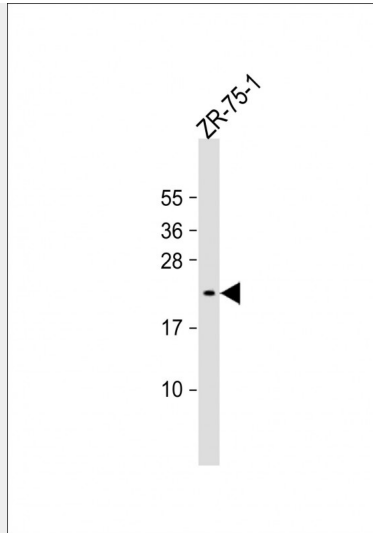
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

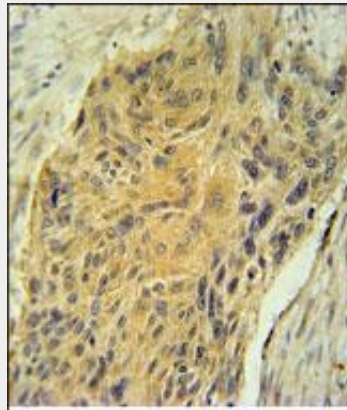
### AVP Antibody (Center) - Images



Confocal immunofluorescent analysis of AVP Antibody (Center)(Cat#AP5558c) with ZR-75-1 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).



Anti-AVP Antibody (Center) at 1:1000 dilution + ZR-75-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



AVP Antibody (Center) (Cat. #AP5558c) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AVP Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

### **AVP Antibody (Center) - Background**

This gene encodes a precursor protein consisting of arginine vasopressin and two associated proteins, neurophysin 2 and a glycopeptide, copeptin. Arginine vasopressin is a posterior pituitary hormone which is synthesized in the supraoptic nucleus and paraventricular nucleus of the hypothalamus. Along with its carrier protein, neurophysin 2, it is packaged into neurosecretory vesicles and transported axonally to the nerve endings in the neurohypophysis where it is either stored or secreted into the bloodstream. The precursor is thought to be activated while it is being transported along the axon to the posterior pituitary. Arginine vasopressin acts as a growth factor by enhancing pH regulation through acid-base transport systems. It has a direct antidiuretic action on the kidney, and also causes vasoconstriction of the peripheral vessels. This hormone can contract smooth muscle during parturition and lactation. It is also involved in cognition,

tolerance, adaptation and complex sexual and maternal behaviour, as well as in the regulation of water excretion and cardiovascular functions.

#### **AVP Antibody (Center) - References**

Abu Libdeh, A., et al. Eur. J. Endocrinol. 162(2):221-226(2010)  
Cirillo, M. Kidney Int. 77(1):5-6(2010)  
Meijer, E., et al. Kidney Int. 77(1):29-36(2010)  
Birk, J., et al. J. Cell. Sci. 122 (PT 21), 3994-4002 (2009)