

## AVP

**Reactivity:**Human

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:1000 IHC 1:50 - 1:100 IF 1:20 - 1:50

**Calculated MW:**17kDa

**Observed MW:**Refer to Figures

**Immunogen:**

A synthetic peptide of human AVP

**Storage Buffer:**

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

VP; ADH; ARVP; AVRP; AVP-NP11; Arg-vasopressin; Arginine-vasopressin;

**Catalog #:**A5598

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**551

**Isotype:**IgG

**Swiss Prot:**P01185

**Purity:**Affinity purification

For research use only.

**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. Mutations in this gene cause autosomal dominant neurohypophyseal diabetes insipidus (ADNDI).

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