

Vasopressin Antibody

Lot Number: RB2151441

Product Data Sheet

Tested Species Reactivity

Human (Hu)

Tested Applications

Immunohistochemistry (Paraffin)
(IHC (P))

Dilution *

1-5 µg/ml

* Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own experiment using appropriate negative and positive controls.

Details

Catalog Number:	PA5-19819
Size:	100 µg
Class:	Polyclonal
Type:	Antibody
Clone:	
Host / Isotype:	Rabbit / IgG
Immunogen:	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Vasopressin.

Form Information

Form:	Liquid
Concentration:	0.2mg/ml
Purification:	Antigen affinity chromatography
Storage Buffer:	PBS, pH 7.4, with 1% BSA
Preservative:	0.02% sodium azide
Storage Conditions:	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Product Specific Information

Heat mediated antigen retrieval recommended prior to tissue staining.

Not suitable for use with Western Blot.

This antibody is predicted to react with mouse, rat, sheep, cow, cat, dog and pig based on sequence homology.

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General Information

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.

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