

Vasopressin (D8T3K) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-F	M	Endogenous	Rabbit IgG	#P01185	551

Product Usage Information**Application**

Immunofluorescence (Frozen)

Dilution

1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Vasopressin (D8T3K) Rabbit mAb recognizes endogenous levels of total Vasopressin protein. Presumed non-specific labeling of retinal plexiform layers has been observed by immunofluorescence.

Species predicted to react based on 100% sequence homology

Human

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro155 of human Vasopressin protein.

Background

Vasopressin is a neuroendocrine peptide that is released to the circulation by magnocellular neurons whose cell bodies are mainly found in the paraventricular and the supraoptic nuclei of the hypothalamus. It was first isolated from pituitary gland extracts and synthesized in 1951 (1). Vasopressin acts by activating G protein-coupled, V1a, V1b (also known as V3) and V2 receptors and plays a fundamental role in the maintenance of water homeostasis. One of its main functions is body water retention (2), hence its alternative name antidiuretic hormone or ADH. Vasopressin also leads to increased arterial blood pressure by raising peripheral vascular resistance (3). Vasopressin is also involved in other physiological processes such as acute heart failure (4), pain (5), and metabolic syndrome (6).

Background References

1. Turner, R.A. et al. (1951) *J Biol Chem* 191, 21-8.
2. Robertson, G.L. (1976) *Recent Prog Horm Res* 33, 333-85.
3. Aoyagi, T. et al. (2009) *Kidney Int* 76, 1035-9.
4. Gilotra, N.A. and Russell, S.D. (2014) *World J Cardiol* 6, 1252-61.
5. Luttinger, D. et al. (1984) *Int Rev Neurobiol* 25, 185-241.
6. Saleem, U. et al. (2009) *J Clin Endocrinol Metab* 94, 2558-64.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-F: Immunofluorescence (Frozen)

Cross-Reactivity Key

M: Mouse

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