

Store at
-20°C

Vasopressin (D8T3K) Rabbit mAb



#50068

Support: +1-978-867-2388 (U.S.)
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orders@cellsignal.comEntrez-Gene ID #551
UniProt ID #P01185

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For Research Use Only. Not For Use In Diagnostic Procedures.**Applications**
IF-F
Endogenous**Species Cross-Reactivity**
M, (H)**Isotype**
Rabbit IgG**

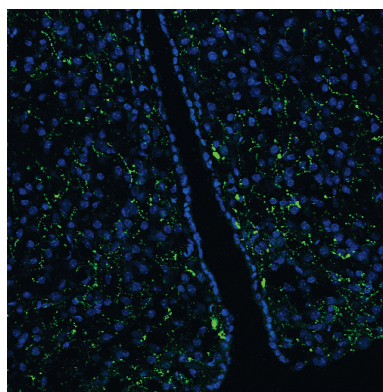
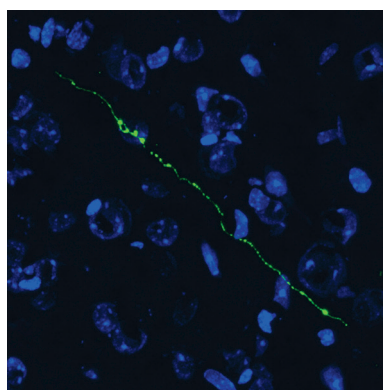
Background: Vasopressin is a neuroendocrine peptide that is released to the circulation by magnocellular neurons whose cell bodies are mainly found in the paraventricular and the supraoptic nuclei of the hypothalamus. It was first isolated from pituitary gland extracts and synthesized in 1951 (1). Vasopressin 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).

Specificity/Sensitivity: Vasopressin (D8T3K) Rabbit mAb recognizes endogenous levels of total Vasopressin protein.

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

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.

20X magnification**60X magnification**

Confocal immunofluorescent analysis of the hypothalamic region of normal mouse brain (upper) and a magnified image (lower) using Vasopressin (D8T3K) Rabbit mAb (green). Blue pseudocolor = DRAQ5® #4084 (fluorescent DNA dye).

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.

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Immunofluorescence (IF-F) 1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.