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.

For Research Use Only. Not For Use In Diagnostic Procedures.

**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

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:

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.

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

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).

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