**BACKGROUND**

Arginine-vasopressin (AVP) is an antidiuretic, neurohypophyseal hormone involved with body fluid homeostasis and is believed to act as an autocrine growth factor in certain cancers, such as breast cancer. The many forms of the AVP precursor have been found in Skbr3 and MCF7 cells, both at the cell surface and in secreted form. Excessive AVP secretion, regulated by specific and highly sensitive hypothalamic osmoreceptors, increases mean arterial pressure, systemic vascular resistance and stroke volume index via vasopressin V1a- and V2-mediated effects on the peripheral vasculature and on water retention. Myocardial function may be directly and adversely affected by AVP through V1a activation on myocardial contractility and cell growth. A V1-type receptor-mediated pathway caused by AVP has also proven to promote cancer growth through ERK1/2 activation. The antidiuretic action of AVP is regulated by the vasopressin V2 receptor. AVP may also keep migraines in remission, as it promotes antinociception and influences vasomotor and behavior control. These factors make AVP a target for therapy in both acute and chronic heart failure.

**CHROMOSOMAL LOCATION**

Genetic locus: Avp (mouse) mapping to 2 F1.

**SOURCE**

AVP (E-8) is a mouse monoclonal antibody raised against amino acids 111-160 mapping near the C-terminus of AVP of mouse origin.

**PRODUCT**

Each vial contains 200 μg IgG, kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

AVP (E-8) is available conjugated to agarose (sc-390723 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390723 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycocyanin (sc-390723 PE), fluorescein (sc-390723 FITC), Alexa Fluor® 488 (sc-390723 AF488), Alexa Fluor® 546 (sc-390723 AF546), Alexa Fluor® 594 (sc-390723 AF594) or Alexa Fluor® 647 (sc-390723 AF647), 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390723 AF680) or Alexa Fluor® 790 (sc-390723 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

AVP (E-8) is recommended for detection of AVP precursor, Neurophysin II and copeptin mature chains of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:1000), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:100-1:1000) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for AVP siRNA (m): sc-155887, AVP shRNA Plasmid (m): sc-155887-SH and AVP shRNA (m) Lentiviral Particles: sc-155887-V.

Molecular Weight (predicted) of AVP: 17 kDa.

Molecular Weight (observed) of AVP: 33 kDa.

Positive Controls: mouse pituitary gland extract: sc-364246.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

![AVP Western Blot](image)

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.

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