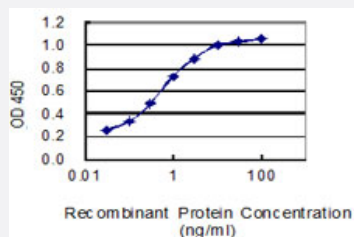


# AVP monoclonal antibody (M07), clone 1H7

Catalog # H00000551-M07

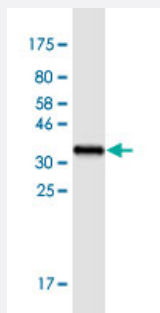
Size 100 ug

## Applications



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AVP is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.18 KDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant AVP.

### Immunogen

AVP (NP\_000481.2, 20 a.a. ~ 124 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

### Sequence

CYFQNCPRGGKRAMSDLELRQCLPCGPGGKGRCFGPSICCADELGCFVGTAELRCQEENYLP  
SPCQSGQKACGSGGRCAAFGVCCNDESCVTEPECREGFHRRA

### Host

Mouse

### Reactivity

Human

Interspecies Antigen Sequence	Mouse (90); Rat (91)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.18 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AVP is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — AVP

Entrez GeneID	<a href="#">551</a>
GeneBank Accession#	<a href="#">NM_000490.4</a>
Protein Accession#	<a href="#">NP_000481.2</a>
Gene Name	AVP
Gene Alias	ADH, ARVP, AVP-NPII, AVRP, VP
Gene Description	arginine vasopressin
Omim ID	<a href="#">125700 192340</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a precursor protein consisting of arginine vasopressin and two associated proteins, neurophysin II 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 II, 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 (ADNDI). [provided by RefSeq]

**Other Designations**

OTTHUMP00000030089|antidiuretic hormone|arginine vasopressin-neurophysin II|neurohypophyseal|vasopressin-neurophysin II-copeptin

**Pathway**

- [Neuroactive ligand-receptor interaction](#)
- [Vascular smooth muscle contraction](#)

**Disease**

- [Anorexia Nervosa](#)
- [Bulimia](#)
- [Depressive Disorder](#)
- [Diabetes Insipidus](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Mood Disorders](#)
- [Panic Disorder](#)
- [Psychiatric Status Rating Scales](#)