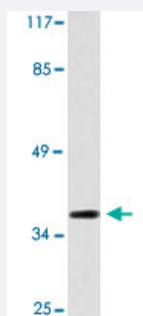


AVPR2 polyclonal antibody

Catalog # PAB25124 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Raw 264.7 cell lysate with AVPR2 polyclonal antibody (Cat # PAB25124).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of AVPR2.
Immunogen	A synthetic peptide corresponding to AVPR2.
Host	Rabbit
Theoretical MW (kDa)	38
Reactivity	Human
Specificity	AVPR2 polyclonal antibody detects endogenous levels of AVPR2 protein.
Form	Liquid
Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunofluorescence (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.05% sodium azide)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of Raw 264.7 cell lysate with AVPR2 polyclonal antibody (Cat # PAB25124).

- Immunofluorescence

Gene Info — AVPR2

Entrez GeneID

[554](#)

Gene Name

AVPR2

Gene Alias

ADHR, DI1, DIR, DIR3, MGC126533, MGC138386, NDI, V2R

Gene Description

arginine vasopressin receptor 2

Omim ID

[300538](#) [300539](#) [304800](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

This gene encodes the vasopressin receptor, type 2, also known as the V2 receptor, which belongs to the seven-transmembrane-domain G protein-coupled receptor (GPCR) superfamily, and couples to Gs thus stimulating adenylate cyclase. The subfamily that includes the V2 receptor, the V1a and V1b vasopressin receptors, the oxytocin receptor, and isotocin and mesotocin receptors in non-mammals, is well conserved, though several members signal via other G proteins. All bind similar cyclic nonapeptide hormones. The V2 receptor is expressed in the kidney tubule, predominantly in the distal convoluted tubule and collecting ducts, where its primary property is to respond to the pituitary hormone arginine vasopressin (AVP) by stimulating mechanisms that concentrate the urine and maintain water homeostasis in the organism. When the function of this gene is lost, the disease Nephrogenic Diabetes Insipidus (NDI) results. The V2 receptor is also expressed outside the kidney although its tissue localization is uncertain. When these 'extrarenal receptors' are stimulated by infusion of a V2 selective agonist (dDAVP), a variety of clotting factors are released into the bloodstream. The physiologic importance of this property is not known - its absence does not appear to be detrimental in NDI patients. The gene expression has also been described in fetal lung tissue and lung cancer associated with alternative splicing. [provided by RefSeq]

Other Designations

OTTHUMP00000026011

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Cardiovascular Diseases](#)
- [Dehydration](#)
- [Diabetes Insipidus](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)