

## Product datasheet for **TA342645**

### AVPR V2 (AVPR2) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-AVPR2 antibody: synthetic peptide directed towards the C terminal of human AVPR2. Synthetic peptide located within the following region: NPWIYASFSSSVSSELRSLCCARGRTPPSLGPQDESCCTASSSLAKDTS
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	40 kDa
Gene Name:	arginine vasopressin receptor 2
Database Link:	<a href="#">NP_000045</a> <a href="#">Entrez Gene 554 Human</a> <a href="#">P30518</a>



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**Background:**

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.

**Synonyms:**

ADHR; DI1; DIR; DIR3; NDI; V2R

**Note:**

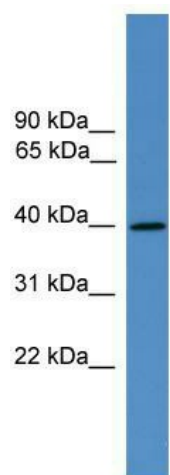
Immunogen Sequence Homology: Pig: 100%; Human: 100%; Guinea pig: 100%; Rat: 93%; Mouse: 93%; Horse: 86%; Rabbit: 86%; Dog: 79%; Sheep: 79%; Bovine: 79%

**Protein Families:**

Druggable Genome, GPCR, Transmembrane

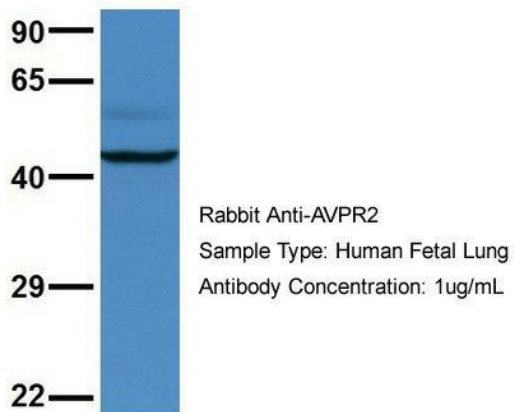
**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

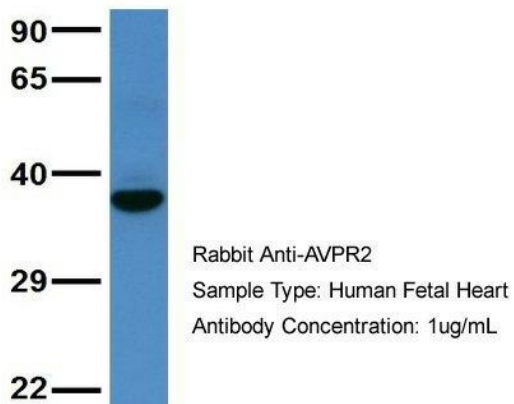
WB Suggested Anti-AVPR2 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: HeLa cell lysate

### AVPR2



Host: Rabbit; Target Name: AVPR2; Sample Tissue: Human Fetal Lung; Antibody Dilution: 1.0 ug/ml

### AVPR2



Host: Rabbit; Target Name: AVPR2; Sample Tissue: Human Fetal Heart; Antibody Dilution: 1.0 ug/ml