

Datasheet for ABIN2788110  
**anti-AVPR2 antibody (C-Term)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µL
Target:	AVPR2
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Sheep, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AVPR2 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human AVPR2
Sequence:	NPWIYASFSS SVSSELRSL CCARGRTPPS LGPQDESC TT ASSSLAKDTS
Predicted Reactivity:	Cow: 79%, Dog: 79%, Guinea Pig: 100%, Horse: 86%, Human: 100%, Mouse: 93%, Rabbit: 86%, Rat: 93%, Sheep: 79%
Characteristics:	This is a rabbit polyclonal antibody against AVPR2. It was validated on Western Blot.
Purification:	Affinity Purified

## Target Details

Target:	AVPR2
Alternative Name:	AVPR2 ( <a href="#">AVPR2 Products</a> )

## Target Details

Background:	<p>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.</p> <p>Alias Symbols: ADHR, DI1, DIR, DIR3, MGC126533, MGC138386, NDI, V2R</p> <p>Protein Interaction Partner: ARRDC4, ARRDC3, GNG2, GNB1, GNAS, STUB1, UBC, DERL1, VCP, C1QTNF1, GRK5, AVP, ARRB2, MAPK3, PRKCA,</p> <p>Protein Size: 371</p>
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Molecular Weight:	40 kDa
Gene ID:	554
NCBI Accession:	<a href="#">NM_000054</a> , <a href="#">NP_000045</a>
UniProt:	<a href="#">P30518</a>
Pathways:	<a href="#">cAMP Metabolic Process</a>

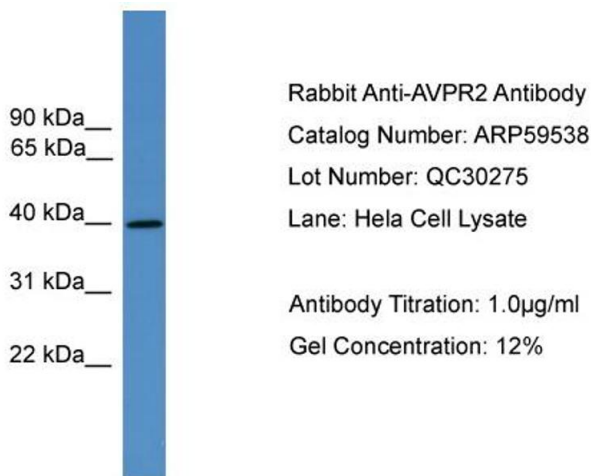
## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 371 AA
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Images

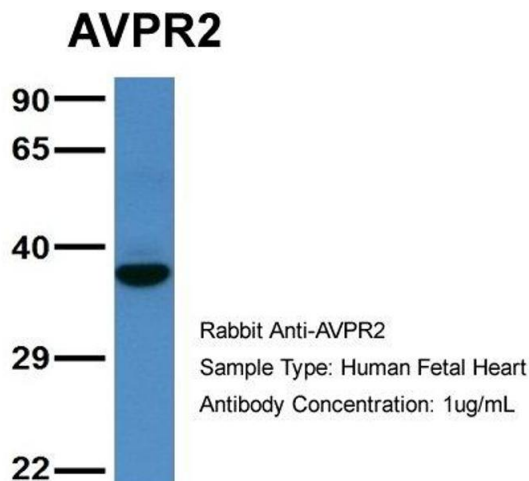


### Western Blotting

#### Image 1. WB Suggested Anti-AVPR2

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1::2500

Positive Control: Hela cell lysate



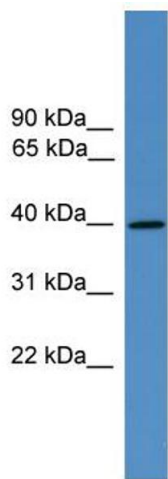
### Western Blotting

#### Image 2. Host: Rabbit

Target Name: AVPR2

Sample Tissue: Human Fetal Heart

Antibody Dilution: 1.0 µg/mL



**Western Blotting**

**Image 3. WB Suggested Anti-AVPR2 Antibody Titration:**

0.2-1 ug/ml

**ELISA Titer:** 1:62500

**Positive Control:** Hela cell lysate

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2788110.