AVPR2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	AVPR2, Polyclonal Antibody
Full Product Name	AVPR2 Antibody, HRP conjugated
Product Gene Name	anti-AVPR2 antibody
Product Synonym Names	Vasopressin V2 receptor; V2R; AVPR V2; Antidiuretic hormone receptor; Renal-type arginine vasopressin receptor; AVPR2; ADHR; DIR; DIR3; V2R
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: AVPR2 (MBS7104377) HRP Conjugated Antibody: AVPR2 (MBS7104378)
Molecular Weight	33,743 Da
OMIM	L22206 Genomic DNA
3D Structure	ModBase 3D Structure for P30518
Immunogen	Recombinant Human Vasopressin V2 receptor protein (221-271AA)
Conjugation	HRP
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Product Categories/Family for anti-AVPR2 antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-AVPR2 antibody	ELISA (EIA)
Related Product Information for anti-AVPR2 antibody	Receptor for arginine vasopressin. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Involved in renal water reabsorption.
Other Notes	Small volumes of anti-AVPR2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AVPR2 purchase	MBS7104378 is an antibody targeting AVPR2. Also known as AVPR2 Antibody, HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AVPR2. It may not necessarily be applicable to this product.

NCBI GI #	4557345
NCBI GeneID	554
NCBI Accession #	NP_000045.1
UniProt Primary Accession #	P30518
UniProt Secondary Accession #	O43192; Q3MJD3; Q9UCV9; C5HF20
UniProt Related Accession #	P30518
GenBank Nucleotide #	NM_000054.4
NCBI Official Full Name	vasopressin V2 receptor isoform 1
NCBI Official Synonym Full Names	arginine vasopressin receptor 2
NCBI Official Symbol	AVPR2
NCBI Official Synonym Symbols	DI1; DIR; NDI; V2R; ADHR; DIR3
UniProt Protein Name	Vasopressin V2 receptor
UniProt Synonym Protein Names	AVPR V2; Antidiuretic hormone receptor; Renal-type arginine vasopressin receptor
Protein Family	Vasopressin V2 receptor
UniProt Gene Name	AVPR2
UniProt Synonym Gene Names	ADHR; DIR; DIR3; V2R; V2R
NCBI Protein Information	vasopressin V2 receptor
NCBI Summary for AVPR2	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, Jul 2008]
Research Articles on AVPR2	**1.** Data found Mutations of Vasopressin Receptor 2 Including Novel L312S Have Differential Effects on Trafficking
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