Datasheet for ABIN6137379

anti-AVPR2 antibody (AA 232-371)

1 Image

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Overview

Quantity:	100 µL
Target:	AVPR2
Binding Specificity:	AA 232-371
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This AVPR2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 232-371 of human AVPR2 (NP_000045.1).
Sequence:	IHASLVPGPS ERPGGRRRGR RTGSPGEGAH VSAAVAKTVR MTLVIVVVYV LCWAPFFLVQ LWAAWDPEAP LEGAPFVLLM LLASLNSCTN PWIYASFSSS VSSELRSLLC CARGRTPPSL GPQDESCTTA SSSLAKDTSS
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	AVPR2
Alternative Name:	AVPR2 (AVPR2 Products)
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.,AVPR2,ADHR,DI1,DIR,DIR3,NDI,V2R,Signal Transduction,G protein signaling,G-Protein-Coupled Receptors(GPCR),Neuroscience,AVPR2
Molecular Weight:	33 kDa/40 kDa
Gene ID:	554
UniProt:	P30518
Pathways:	cAMP Metabolic Process

Application Details

Application Notes:	WB,1:500 - 1:2000
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

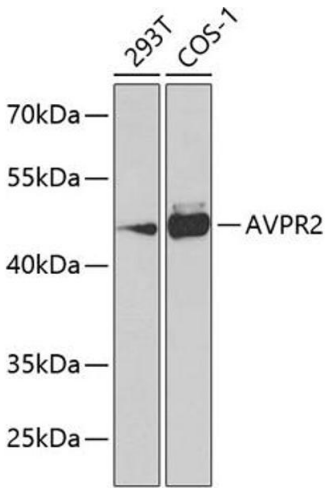
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using Antibody (ABIN6129564, ABIN6137379, ABIN6137380 and ABIN6223862) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.