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AVPR2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5433

Product Information

Application	WB, FC
Primary Accession	P30518
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	40279
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	554
Antigen Region	343-377
Other Names	Vasopressin V2 receptor, V2R, AVPR V2, Antidiuretic hormone receptor, Renal-type arginine vasopressin receptor, AVPR2, ADHR, DIR, DIR3, V2R
Dilution	WB~~1:1000 FC~~1:25
Target/Specificity	This AVPR2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 343-377 amino acids from the C-terminal region of human AVPR2.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	AVPR2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	AVPR2
Synonyms	ADHR, DIR, DIR3, V2R
Function	G-protein-coupled receptor for arginine vasopressin, an antidiuretic that

promotes renal water reabsorption (PubMed:1534149, PubMed:19440390, PubMed:33664408, PubMed:33742150). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase (cAMP) (PubMed:33664408, PubMed:33742150). AVPR2 is coupled to G(s) G alpha proteins and mediates activation of adenylate cyclase activity (PubMed:33664408, PubMed:33742150).

Cellular Location Cell membrane; Multi-pass membrane protein

Tissue Location Kidney..

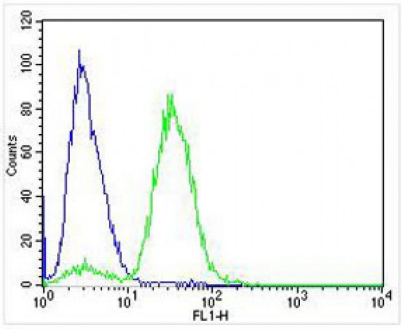
Background

Receptor for arginine vasopressin. The activity of this receptor is mediated by G proteins which activate adenylate cyclase. Involved in renal water reabsorption.

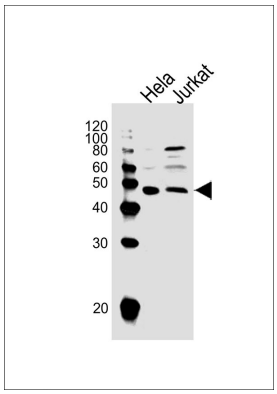
References

Seibold A.,et al.Am. J. Hum. Genet. 51:1078-1083(1992).
Birnbaumer M.,et al.Nature 357:333-335(1992).
Wildin R.S.,et al.Am. J. Hum. Genet. 55:266-277(1994).
Fay M.J.,et al.Peptides 17:477-481(1996).
North W.G.,et al.Cancer Res. 58:1866-1871(1998).

Images



Overlay histogram showing Jurkat cells stained with AW5433 (green line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit lgG (H+L) (1583138) at 1/400 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-AVPR2 Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDM/TBST.