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AVPR2 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21193b

Product Information

Application	WB, FC, E
Primary Accession	P30518
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB52186
Calculated MW	40279

Additional Information

Gene ID	554
Other Names	Vasopressin V2 receptor, V2R, AVPR V2, Antidiuretic hormone receptor, Renal-type arginine vasopressin receptor, AVPR2, ADHR, DIR, DIR3, V2R
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.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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..

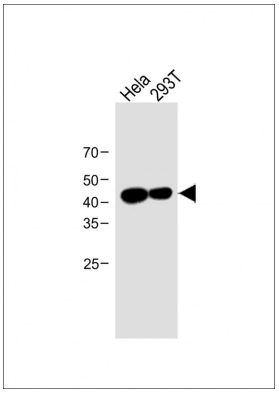
Background

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

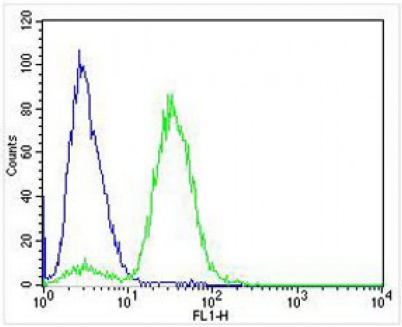
References

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Images



All lanes: Anti-AVPR2 Antibody (C-term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: 293T whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 45 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing Jurkat cells stained with AP21193b (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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.