10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

VIPR2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17003a

Product Information

Application	WB, E
Primary Accession	P41587
Other Accession	NP_003373.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36748
Calculated MW	49479
Antigen Region	95-123

Additional Information

Gene ID	7434
Other Names	Vasoactive intestinal polypeptide receptor 2, VIP-R-2, Helodermin-preferring VIP receptor, Pituitary adenylate cyclase-activating polypeptide type III receptor, PACAP type III receptor, PACAP-R-3, PACAP-R3, VPAC2, VIPR2, VIP2R
Target/Specificity	This VIPR2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 95-123 amino acids from the N-terminal region of human VIPR2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	VIPR2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	VIPR2 (HGNC:12695)
Synonyms	VIP2R

Function	G protein-coupled receptor activated by the neuropeptides vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase- activating polypeptide (ADCYAP1/PACAP) (PubMed:7811244, PubMed:35477937, PubMed:8933357). Binds VIP and both PACAP27 and PACAP38 bioactive peptides with the following order of potency PACAP38 = VIP > PACAP27 (PubMed:35477937, PubMed:8933357). Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors. Activates cAMP-dependent pathway (PubMed:7811244, PubMed:35477937, PubMed:8933357). May be coupled to phospholipase C.
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in CD4+ T-cells, but not in CD8+ T-cells. Expressed in the T-cell lines Jurkat, Peer, MOLT-4, HSB, YT and SUP-T1, but not in the T-cell lines HARRIS and HuT 78

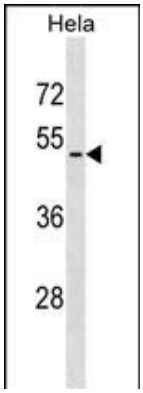
Background

Vasoactive intestinal peptide (VIP; MIM 192320) and pituitary adenylate cyclase activating polypeptide (PACAP; MIM 102980) are homologous peptides that function as neurotransmitters and neuroendocrine hormones. While the receptors for VIP and PACAP share homology, they differ in their substrate specificities and expression patterns. See VIPR1 (MIM 192321) and ADCYAP1R1(MIM 102981).

References

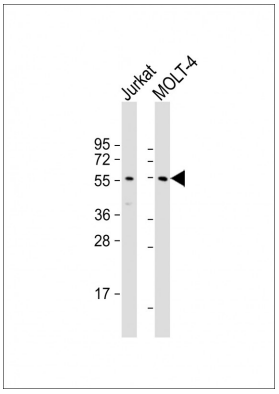
Kovanen, L., et al. Alcohol Alcohol. 45(4):303-311(2010)
Kellogg, D.L. Jr., et al. J. Appl. Physiol. 109(1):95-100(2010)
Liu, Y.J., et al. Obesity (Silver Spring) (2010) In press :
Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010)
Sjoholm, L.K., et al. J Circadian Rhythms 8, 1 (2010) :

Images



VIPR2 Antibody (N-term) (Cat. #AP17003a) western blot analysis in Hela cell line lysates (35ug/lane).This demonstrates the VIPR2 antibody detected the VIPR2 protein (arrow).

All lanes : Anti-VIPR2 Antibody (N-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: MOLT-4 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



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