

VIPR2 Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17003a**Specification**

VIPR2 Antibody (N-term) - Product Information

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

VIPR2 Antibody (N-term) - 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.

VIPR2 Antibody (N-term) - 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

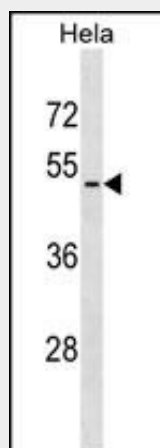
Expressed in CD4+ T-cells, but not in CD8+ T-cells. Expressed in the T-cell lines Jurkat, Peer, MOLT-4, HSB, YT and SUP-T1, but not in the T-cell lines HARRIS and HuT 78

VIPR2 Antibody (N-term) - Protocols

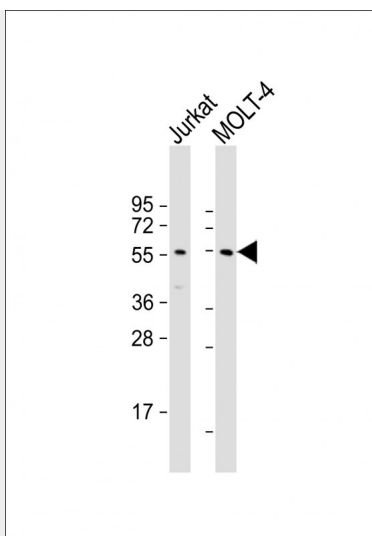
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

VIPR2 Antibody (N-term) - 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.

VIPR2 Antibody (N-term) - 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).

VIPR2 Antibody (N-term) - 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) :