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

VIPR1 Antibody(C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19704b

Specification

VIPR1 Antibody(C-term) - Product Information

Application	**WB,E**
Primary Accession	P32241
Other Accession	NP_004615.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51547**
Antigen Region	**305-334**

VIPR1 Antibody(C-term) - Additional Information

Gene ID 7433

Other Names
Vasoactive intestinal polypeptide receptor 1, VIP-R-1, Pituitary adenylate cyclase-activating polypeptide type II receptor, PACAP type II receptor, PACAP-R-2, PACAP-R2, VPAC1, VIPR1

Target/Specificity
This VIPR1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 305-334 amino acids from the C-terminal region of human VIPR1.

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
VIPR1 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

VIPR1 Antibody(C-term) - Protein Information

Name VIPR1 (HGNC:12694)

Function G protein-coupled receptor activated by the neuropeptides vasoactive intestinal peptide (VIP) and pituitary adenylate cyclase- activating polypeptide (ADCYAP1/PACAP) (PubMed:35477937, PubMed:36385145, PubMed:8179610). Binds VIP and both PACAP27 and PACAP38 bioactive peptides with the following order of ligand affinity VIP = PACAP27 > PACAP38 (PubMed:35477937, PubMed:8179610). 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:35477937, PubMed:36385145, PubMed:8179610).

Cellular Location
Cell membrane; Multi-pass membrane protein

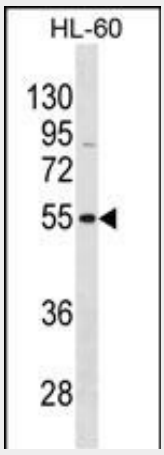
Tissue Location
In lung, HT-29 colonic epithelial cells, Raji B- lymphoblasts. Lesser extent in brain, heart, kidney, liver and placenta. Not expressed in CD4+ or CD8+ T-cells. Expressed in the T- cell lines HARRIS, HuT 78, Jurkat and SUP-T1, but not in the T-cell lines Peer, MOLT-4, HSB and YT.

VIPR1 Antibody(C-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 Cytomety
- Cell Culture

VIPR1 Antibody(C-term) - Images



VIPR1 Antibody (C-term) (Cat. #AP19704b) western blot analysis in HL-60 cell line lysates (35ug/lane).This demonstrates the VIPR1 antibody detected the VIPR1 protein (arrow).

VIPR1 Antibody(C-term) - Background

This gene encodes a receptor for vasoactive intestinal peptide, a small neuropeptide. Vasoactive intestinal peptide is involved in smooth muscle relaxation, exocrine and endocrine

secretion, and water and ion flux in lung and intestinal epithelia. Its actions are effected through integral membrane receptors associated with a guanine nucleotide binding protein which activates adenylate cyclase.

VIPR1 Antibody(C-term) - References

Mlakar, V., et al. Cancer Invest. 28(5):487-494(2010)
Burian, B., et al. Peptides 31(4):603-608(2010)
Cocco, E., et al. PLoS ONE 5 (8), E12067 (2010) :
Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) :
Chakrabarti, B., et al. Autism Res 2(3):157-177(2009)