

Product datasheet for **AP01436PU-M**

VIP Receptor 1 (VIPR1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 1/500-1/1000. Immunohistochemistry on Paraffin Sections: 1/50-1/200. Immunofluorescence: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to amino acids 350-400 of Human VPAC1.
Specificity:	This antibody detects endogenous levels of VPAC1 protein. (region surrounding Val371)
Formulation:	PBS, pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 52 kDa
Gene Name:	vasoactive intestinal peptide receptor 1
Database Link:	Entrez Gene 7433 Human P32241



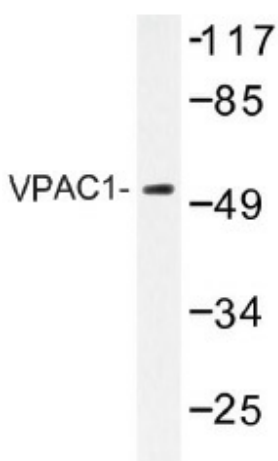
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Background:

The vasoactive intestinal peptide (VIP) and the pituitary adenylate cyclaseactivating polypeptide (PACAP) belong to a superfamily of peptide hormones that include glucagon, secretin and growth hormone releasing hormone. The effects of VIP and PACAP are mediated by three G-protein coupled receptors, VPAC1, VPAC2 and the PACAP receptor (also designated PAC1-R). The VPAC receptors have equal affinities for VIP and PACAP, which stimulate the activation of adenylyl cyclase. Both VPAC1, a 47 kDa protein, and VPAC2, a 65 kDa protein, are abundantly expressed in brain and T cells, where they modulate neuronal differentiation and T cell activation, respectively. The PACAP receptor is a seven transmembrane protein that produces at least eight isoforms by alternative splicing. Each isoform is associated with a specific signaling pathway and a specific expression pattern. The PACAP receptor, which is thought to play an integral role in brain development, preferentially binds PACAP in order to stimulate a cAMP-protein kinase A signaling pathway.

Synonyms:

Vasoactive intestinal polypeptide receptor 1, VIPR1, PACAPR2, PACAP-R-2, VIP-R1, VIPR-1

Product images:


Western blot (WB) analysis of VPAC1 antibody (Cat.-No.: [AP01436PU-N]) in extracts from HT-29 cells.