

**Anti-VIP Receptor 1 Antibody**  
**Catalog # ABO11066****Specification**

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**Anti-VIP Receptor 1 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P32241</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Vasoactive intestinal polypeptide receptor 1(VIPR1) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-VIP Receptor 1 Antibody - 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

**Calculated MW**

51547 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat<br>

**Subcellular Localization**

Cell membrane; Multi-pass membrane protein.

**Tissue Specificity**

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. .

**Protein Name**

Vasoactive intestinal polypeptide receptor 1(VIP-R-1)

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human VIP Receptor 1(400-414aa RRKWRRWHLQGVLGW), identical to the related rat and mouse sequences.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.**

**Anti-VIP Receptor 1 Antibody - 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:<a href="http://www.uniprot.org/citations/35477937" target="\_blank">35477937</a>, PubMed:<a href="http://www.uniprot.org/citations/36385145" target="\_blank">36385145</a>, PubMed:<a href="http://www.uniprot.org/citations/8179610" target="\_blank">8179610</a>). Binds VIP and both PACAP27 and PACAP38 bioactive peptides with the following order of ligand affinity VIP = PACAP27 > PACAP38 (PubMed:<a href="http://www.uniprot.org/citations/35477937" target="\_blank">35477937</a>, PubMed:<a href="http://www.uniprot.org/citations/8179610" target="\_blank">8179610</a>). 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:<a href="http://www.uniprot.org/citations/35477937" target="\_blank">35477937</a>, PubMed:<a href="http://www.uniprot.org/citations/36385145" target="\_blank">36385145</a>, PubMed:<a href="http://www.uniprot.org/citations/8179610" target="\_blank">8179610</a>).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

**Tissue Location**

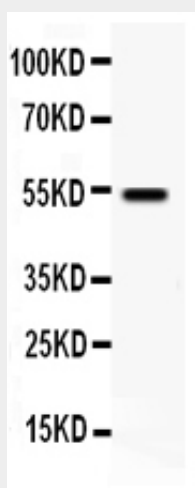
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**Anti-VIP Receptor 1 Antibody - Protocols**

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](#)

**Anti-VIP Receptor 1 Antibody - Images**



Anti- VIPR1 antibody, ABO11066, Western blottingAll lanes: Anti VIPR1 (ABO11066) at 0.5ug/mlWB: Human Placenta Tissue Lysate at 50ugPredicted bind size: 52KDObserved bind size: 52KD

#### **Anti-VIP Receptor 1 Antibody - Background**

VIPR1(Vasoactive intestinal polypeptide receptor 1), also known as VIPR,HVR1, is a protein that in humans is encoded by the VIPR1 gene. Distinct subsets of neural, respiratory, gastrointestinal, and immune cells bear specific high-affinity G protein-coupled receptors for VIP, such as VIPR1. The VIPR1 gene is mapped on 3p22.1. The VIPR1 gene was found to span approximately 22 kb and to be comprised of 13 exons(ranging from 42 to 1,400 bp) and 12 introns(ranging from 0.3 to 6.1 kb). One encodes a VIP receptor consisting of 460 amino acids and having 7 putative transmembrane domains, as do other G protein-coupled receptors. Patients with idiopathic achalasia show a significant difference in the distribution of SNPs affecting VIPR1.