

## Rabbit Anti-VPAC2R antibody

SL0197R

**Product Name** VPAC2R

**Chinese Name** 腺苷酸环化酶激活肽受体-II/血管活性肠肽受体-II 抗体

**Alias** VIP receptor II; VIP receptor2; VIP receptor-2; PACAP type-3; VIP type-2 receptor; Vipr2; Vip2; VPAC2; VPAC2R; Vasoactive intestinal polypeptide receptor 2; VIP-R-2; Pituitary adenylate cyclase-activating polypeptide type III receptor; PACAP type III receptor; PACAP-R-3; PACAP-R3; VIPR2\_HUMAN. VIP-R2; VIP-2R

**Research Area** Cell biology immunology Neurobiology Signal transduction Growth factors and hormones The cell membrane 受体 G protein-coupled receptor

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Human, (predicted: Mouse, Rat, Rabbit, )

**Applications** WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=2ug/Test  
(Paraffin sections need antigen repair)  
not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 48kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from rat VIP receptor II: 81-170/437  
<Extracellular>

**Lsotype** IgG

**Purification** affinity purified by Protein A

**Buffer Solution** 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

**Storage** Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

**Attention** This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

**PubMed**

[PubMed](#)

Pituitary adenylate cyclase-activating polypeptide (PACAP) is a neuropeptide belonging to the vasoactive intestinal polypeptide/glucagon/ secretin family. It is widely distributed in the body, and a variety of biological actions have been reported. Recent studies have shown that there is a family of PACAP receptors (PACAPRs), and two members of this family have been identified. Mouse PACAPR-3 is a protein of 437 amino acids that has 50% and 51% identity with rat PACAP type I and type II receptors, respectively. It binds to vasoactive intestinal polypeptide as well as PACAP-38 and -27, with a slightly higher affinity for PACAP-38, PACAPR-3 mRNA is expressed at high levels in MIN6, at moderate levels in pancreatic islets and other insulin-secreting cell lines, HIT-T15 and RINm5F, as well as in the lung, brain, stomach, and colon, and at low levels in the heart. PACAPR-3 participates in the regulation of insulin secretion. insulin secretion from MIN6 cells is significantly stimulated by PACAP-38.

**Function:**

This is a receptor for VIP as well as PACAP-38 and -27, the activity of this receptor is mediated by G proteins which activate adenylyl cyclase. Can be coupled to phospholipase C.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Product  
Detail**

**Tissue Specificity:**

Expressed in CD4+ T-cells, but not in CD8+ T-cells. Expressed in the T-cell lines Jurkat, PEER, MOLT-4, HSB, YT and Tsup-1, but not in the T-cell lines HARRIS and HUT 78.

**Similarity:**

Belongs to the G-protein coupled receptor 2 family.

**SWISS:**

P35000

**Gene ID:**

7434

**Database links:**

[Entrez Gene: 7434](#) Human

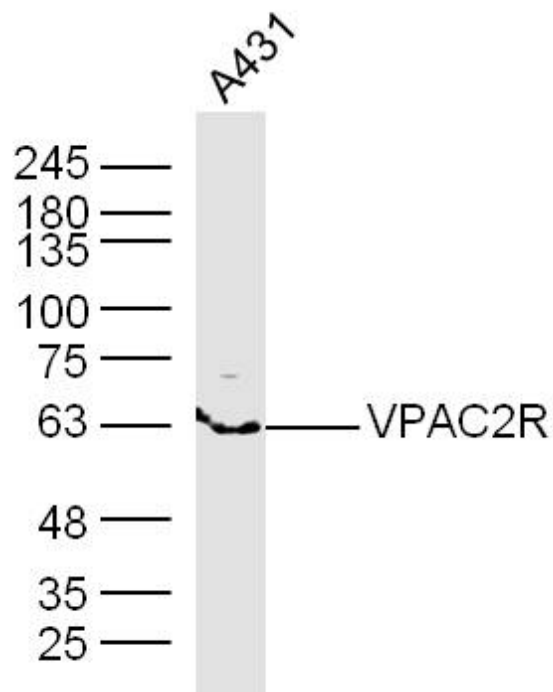
[Omim: 601970](#) Human

[SwissProt: P41587](#) Human

[Unigene: 585052](#) Human

PACAP 受体分为两个亚型，PACAP-2 型受体对 PACAP 是特异性的，与 PACAP 的亲和力比 VIP 高 100-1000 倍，PACAP-II 型受体与 PACAP 和 VIP 的亲和力相似，对二者无选择性。此抗体即为后者。

**Product  
Picture**



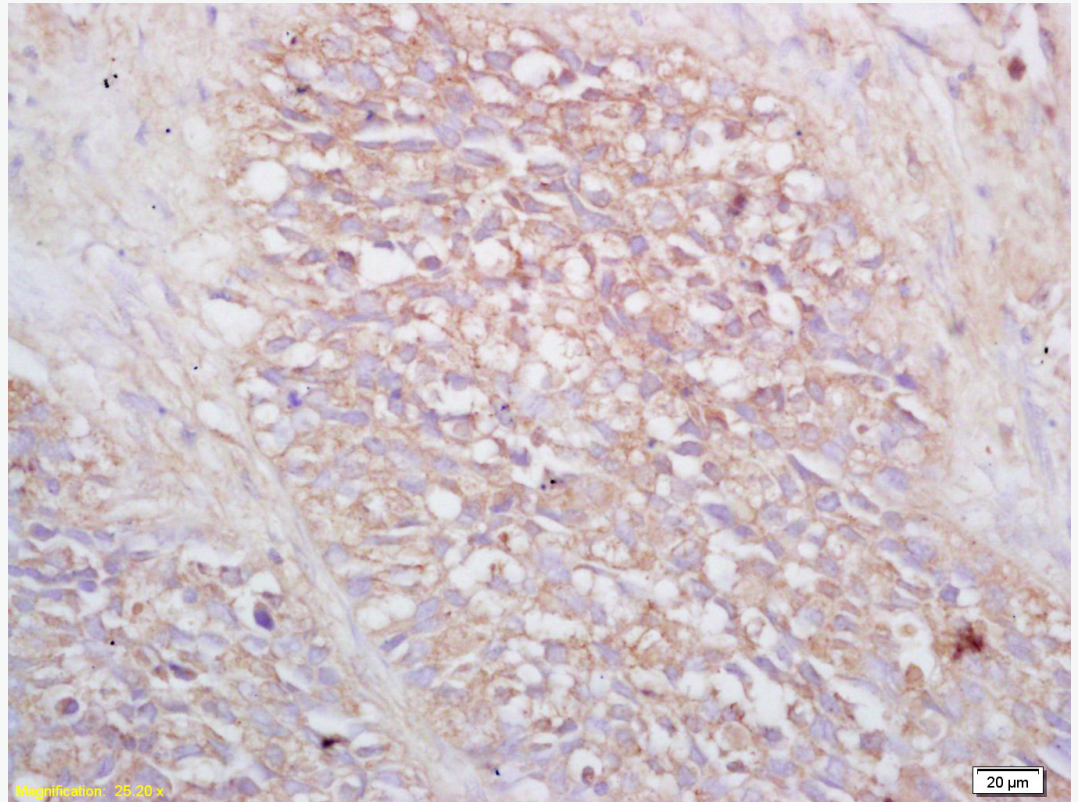
Sample: A431 Cell Lysate at 40 ug

Primary: Anti- VPAC2R (SL0197R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 63 kD

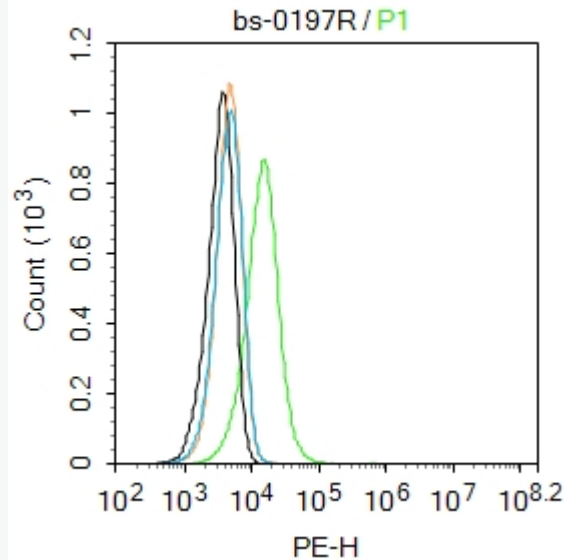


Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-VIP receptor 2/VPAC2 Polyclonal Antibody,

Unconjugated(SL0197R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:Hela.

Primary Antibody (green line): Rabbit Anti-VPAC2R antibody (SL0197R)

Dilution: 2 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 2 $\mu$ g /test.

#### Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.



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