

## Rabbit Anti-PACAP receptor antibody

SL0198R

**Product Name** PACAP receptor

**Chinese Name** 腺苷酸环化酶激活肽受体 1 抗体

**Alias** ADCYAP1 R1; ADCYAP1R 1; PACAP-R1; adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1; PAC 1; PAC1; PAC1R; PACAP R 1; PACAP1 R; PACAPR; PACAPRI; Pituitary adenylate cyclase activating polypeptide 1 receptor type I Hiphop; Pituitary adenylate cyclase activating polypeptide receptor; Pituitary adenylate cyclase activating polypeptide type I receptor precursor; PACR\_HUMAN.

**Research Area** Cell biology immunology Neurobiology The cell membrane 受体 G protein-coupled receptor

**Immunogen Species** Rabbit

**Clonality** Polyclonal

**React Species** Mouse, Rat, (predicted: Human, )  
WB=1:500-2000,ELISA=1:5000-10000

**Applications** not yet tested in other applications.  
optimal dilutions/concentrations should be determined by the end user.

**Theoretical molecular weight** 51kDa

**Cellular localization** The cell membrane

**Form** Liquid

**Concentration** 1mg/ml

**immunogen** KLH conjugated synthetic peptide derived from the middle of human PACAP R1: 251-330/468

**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. This is a receptor for PACAP-27 and PACAP-38. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. May regulate the release of adrenocorticotropin, luteinizing hormone, growth hormone, prolactin, epinephrine, and catecholamine. May play a role in spermatogenesis and sperm motility. Causes smooth muscle relaxation and secretion in the gastrointestinal tract (By similarity). Belongs to the G-protein coupled receptor 2 family.

**Function:**

This is a receptor for PACAP-27 and PACAP-38. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase. May regulate the release of adrenocorticotropin, luteinizing hormone, growth hormone, prolactin, epinephrine, and catecholamine. May play a role in spermatogenesis and sperm motility. Causes smooth muscle relaxation and secretion in the gastrointestinal tract.

**Product  
Detail**

**Subunit:**

Interacts (via N-terminal extracellular domain) with ADCYAP1.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Tissue Specificity:**

Most abundant in the brain, low expression in the lung, liver, thymus, spleen, pancreas and placenta.

**Similarity:**

Belongs to the G-protein coupled receptor 2 family.

**SWISS:**

P41586

**Gene ID:**

117

**Database links:**

[Entrez Gene: 117](#) Human

[Entrez Gene: 319095](#) Cow

[Entrez Gene: 11517](#) Mouse

[Entrez Gene: 24167](#) Rat

[Omim: 102981](#) Human

[SwissProt: Q29627](#) Cow

[SwissProt: P41586](#) Human

[SwissProt: P70205](#) Mouse

[SwissProt: P32215](#) Rat

[Unigene: 377783](#) Human

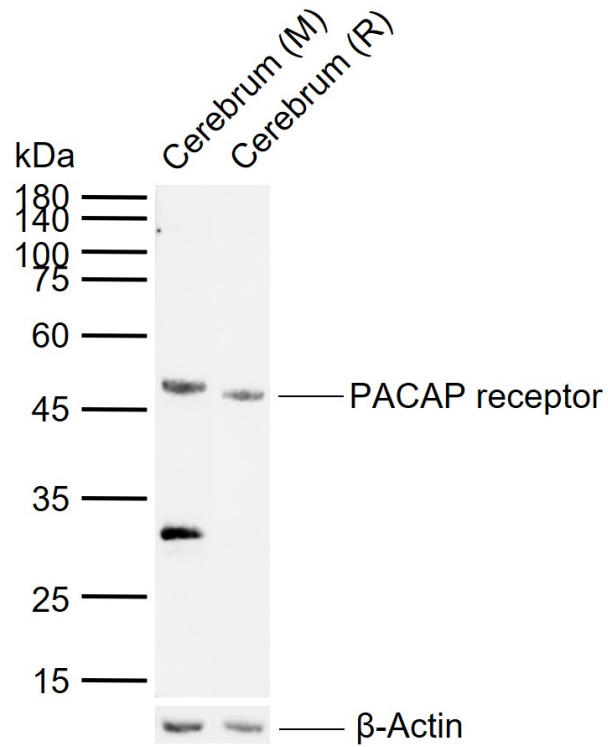
[Unigene: 44245](#) Mouse

[Unigene: 88408](#) Rat

#### Growth factors and hormones ( Growth Factor and Hormones )

PACAP 受体分为两个亚型, PACAP-I 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。此抗体即为前者。

**Product  
Picture**



Sample:

Lane 1: Mouse Cerebrum tissue lysates

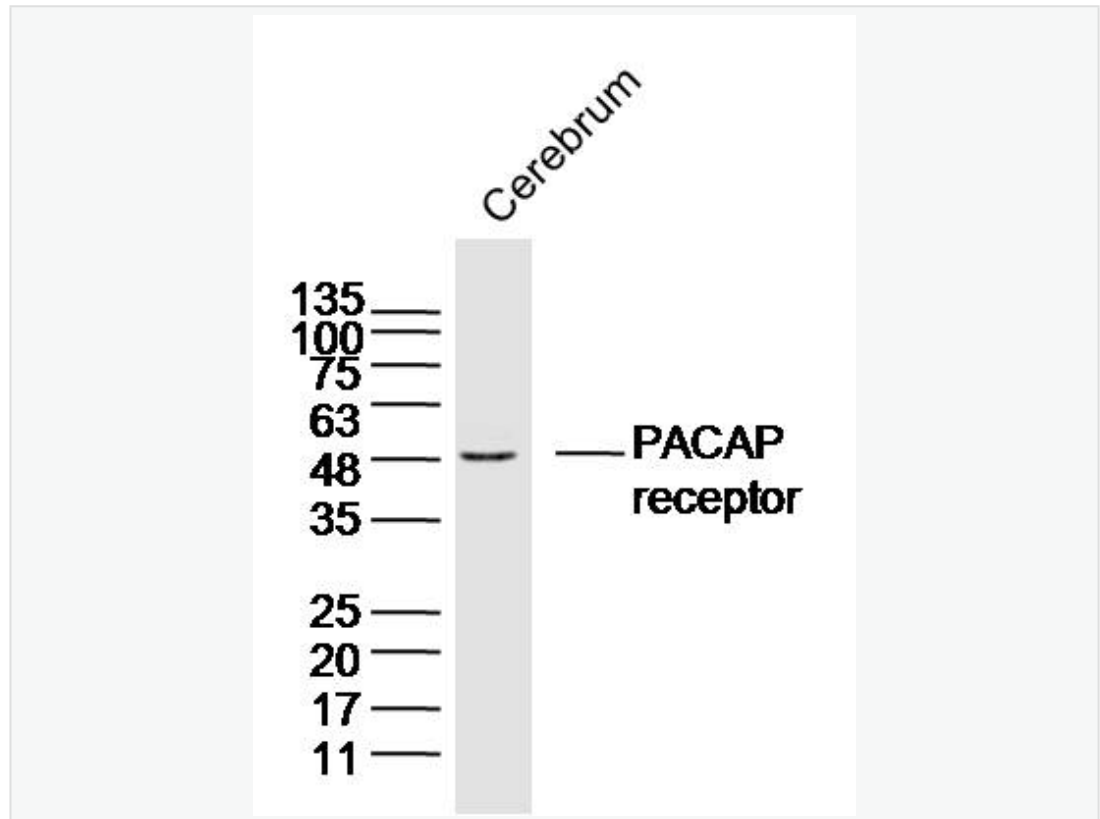
Lane 2: Rat Cerebrum tissue lysates

Primary: Anti-PACAP receptor (SL0198R) at 1/1000 dilution

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

Predicted band size: 51 kDa

Observed band size: 47 kDa



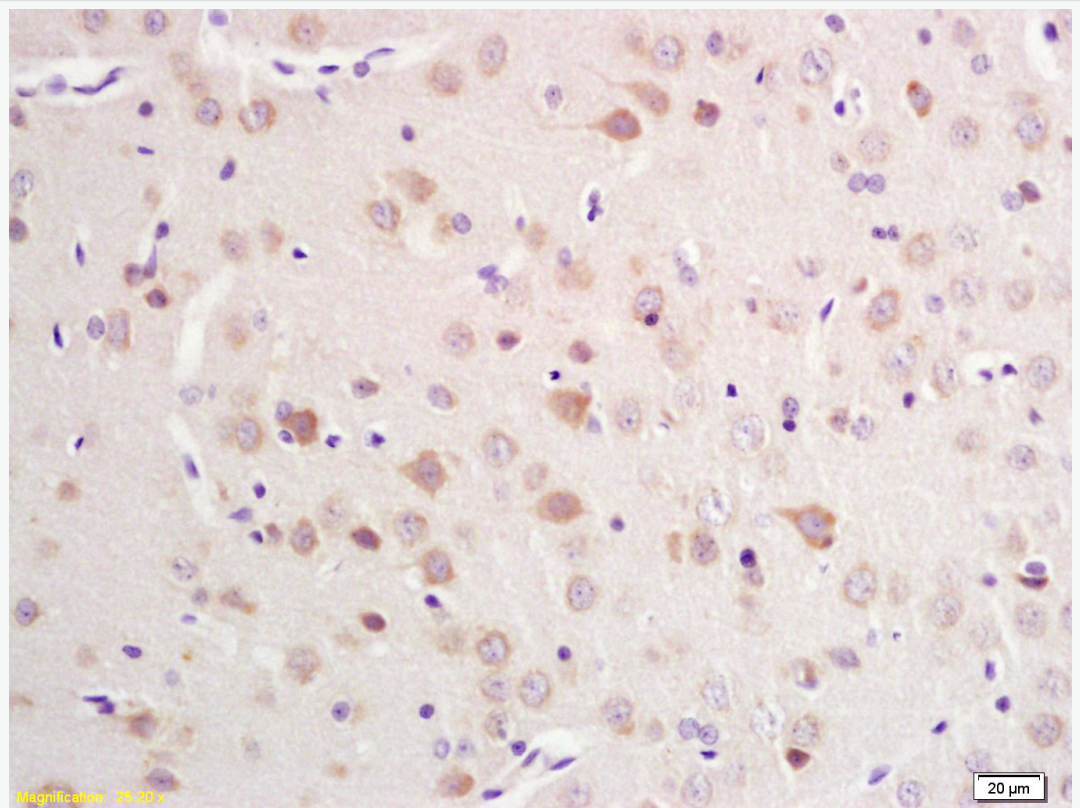
Sample:Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-PACAP receptor(SL0198R)at 1/300 dilution

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

Predicted band size: 51kD

Observed band size: 48kD



Tissue/cell: rat brain tissue; 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-PACAP R1/PACAP receptor 1 Polyclonal Antibody,

Unconjugated(SL0198R) 1:200, overnight at 4°C, followed by conjugation to the  
secondary antibody(SP-0023) and DAB(C-0010) staining