



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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	51kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or 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
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

Important Note:

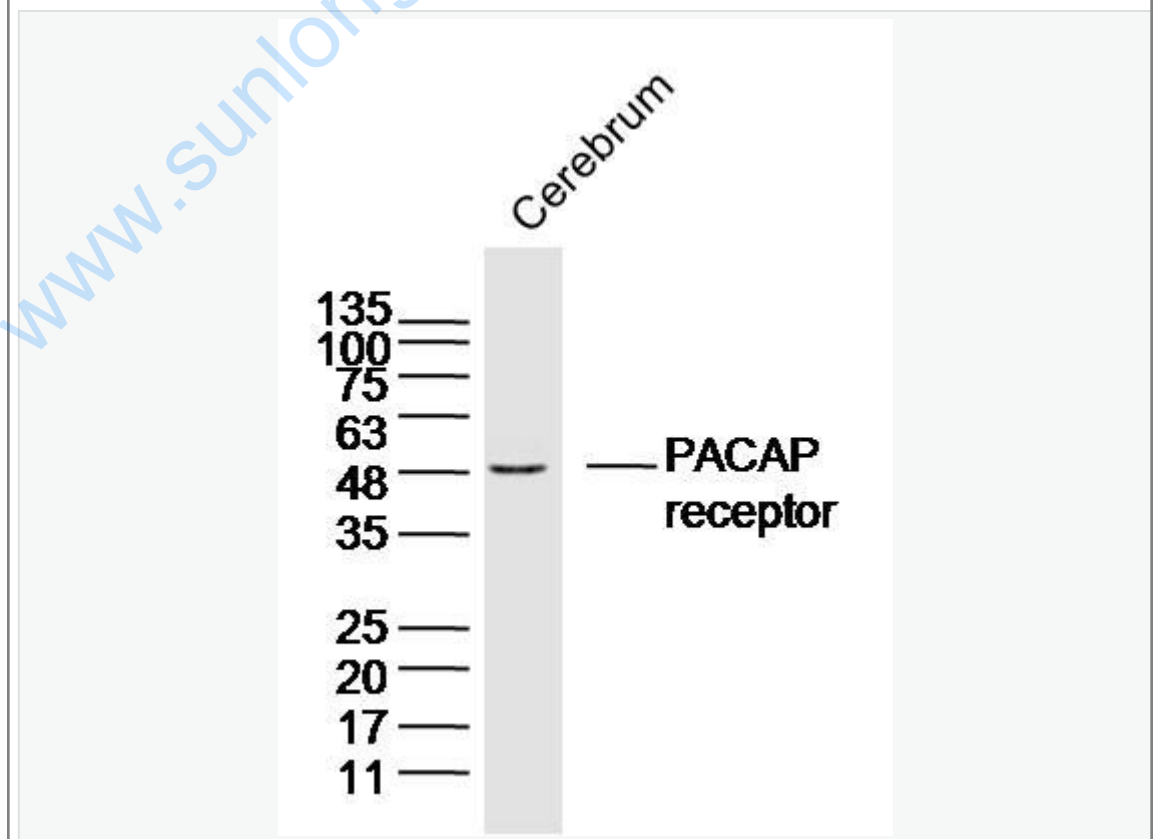
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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的亲合力比VIP高100-1000倍, PACAP-II型受体与PACAP和VIP的亲合力相似, 对二者无选择性。此抗体即为前者。

Picture:



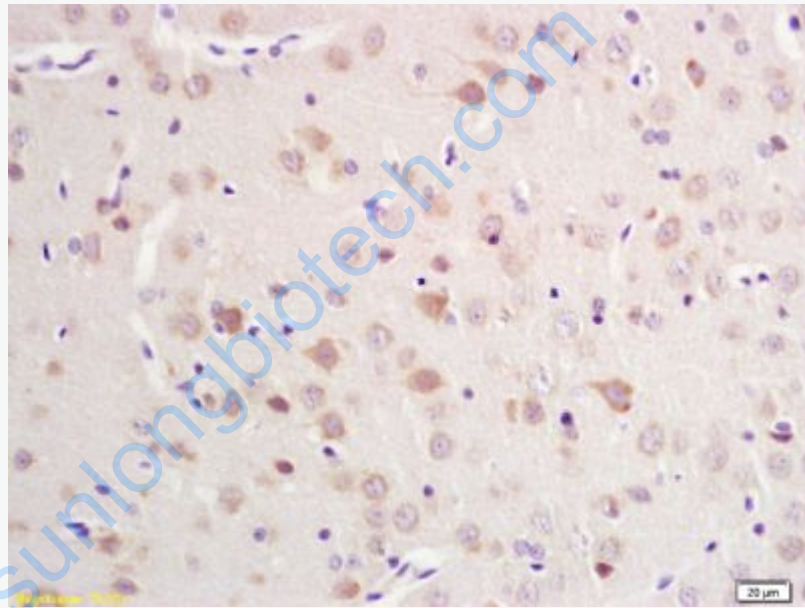
Sample: Cerebrum (Mouse) Lysate at 40 ug

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 (0.01M, 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