10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10216

Specification

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Product Information

Application	**IHC**
Primary Accession	P41586
Reactivity	**Human, Monkey, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**53kDa KDa**

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Additional Information

Gene ID 117

Other Names
Pituitary adenylate cyclase-activating polypeptide type I receptor, PACAP type I receptor, PACAP-R-1, PACAP-R1, ADCYAP1R1

Target/Specificity
Human ADCYAP1R1. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage
Long term: -70°C; Short term: +4°C

Precautions
ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Protein Information

Name ADCYAP1R1 (HGNC:242)

Function
G protein-coupled receptor activated by the neuropeptide pituitary adenylate cyclase-activating polypeptide (ADCYAP1/PACAP) (PubMed:32047270, PubMed:33715378, PubMed:35477937, PubMed:36385145). Binds both PACAP27 and PACAP38 bioactive peptides (PubMed:32047270, PubMed:35477937, PubMed:36385145). 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:32047270, PubMed:33715378, PubMed:35477937, PubMed:36385145). 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 (PubMed:32047270, PubMed:33715378).

Cellular Location
Cell membrane; Multi-pass membrane protein

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

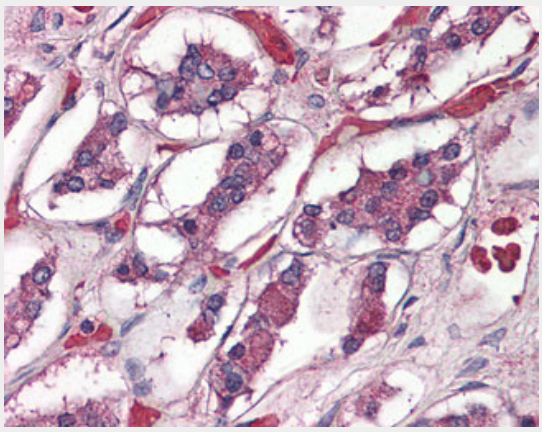
Volume
50 µl

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Images



Anti-ADCYAP1R1 / PAC1 Receptor antibody IHC of human brain, pituitary.

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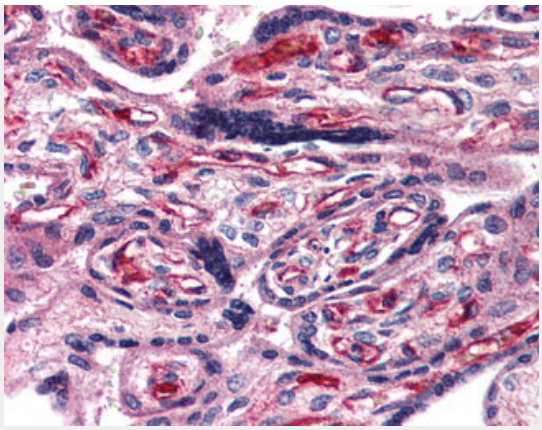
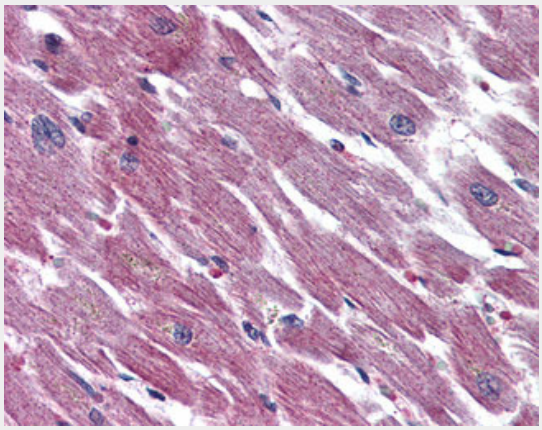


Anti-ADCYAP1R1 antibody ALS10216 IHC of human placenta.



Anti-ADCYAP1R1 antibody ALS10216 IHC of human heart.

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - Background

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.

ADCYAP1R1 / PAC1 Receptor Antibody (N-Terminus) - References

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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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