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PACAP Antibody (C-Term)

Peptide-affinity purified goat antibody
Catalog # AF2972a

Specification

PACAP Antibody (C-Term) - Product Information

Application	**WB**
Primary Accession	P18509
Other Accession	NP_001108.2, 116, 11516 (mouse), 24166 (rat)
Reactivity	**Human**
Predicted	**Mouse, Rat, Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**18835**

PACAP Antibody (C-Term) - Additional Information

Gene ID 116

Other Names
Pituitary adenylate cyclase-activating polypeptide, PACAP, PACAP-related peptide, PRP-48, Pituitary adenylate cyclase-activating polypeptide 27, PACAP-27, PACAP27, Pituitary adenylate cyclase-activating polypeptide 38, PACAP-38, PACAP38, ADCYAP1

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PACAP Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

PACAP Antibody (C-Term) - Protein Information

Name ADCYAP1 (HGNC:241)

Function
PACAP is a neuropeptide involved in diverse array of physiological processes through activating the PACAP subfamily of class B1 G protein-coupled receptors: VIP receptor 1 (VIPR1), VIP receptor 2 (VIPR2), and PACAP type I receptor (ADCYAP1R1) (PubMed:11175907, PubMed:23800469, PubMed:<a

href="http://www.uniprot.org/citations/32047270" target="_blank">32047270, PubMed:36385145). Exerts neuroprotective and general cytoprotective effects due to anti- apoptotic, anti-inflammatory, and antioxidant actions (PubMed:23800469). Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway (PubMed:23800469). In chromaffin cells, induces long-lasting increase of intracellular calcium concentrations and neuroendocrine secretion (By similarity). Involved in the control of glucose homeostasis, induces insulin secretion by pancreatic beta cells (By similarity). PACAP exists in two bioactive forms from proteolysis of the same precursor protein, PACAP27 and PACAP38, which differ by eleven amino acid residues in the C-terminus (PubMed:32047270).

Cellular Location
Secreted.

PACAP Antibody (C-Term) - 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

PACAP Antibody (C-Term) - Images

AF2972a (1 µg/ml) staining of Human Hippocampus lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PACAP Antibody (C-Term) - Background

Reported variants represent identical protein: NP_001093203.1, NP_001108.2.

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PACAP Antibody (C-Term) - References

Novel stable PACAP analogs with potent activity towards the PAC1 receptor. Bourgault S, Vaudry D, Botia B, Couvineau A, Laburthe M, Vaudry H, Fournier A. Peptides 2008 Jun 29 (6): 919-32. PMID: 18353507