

ADCYAP1 Antibody (C-term) Blocking peptide

Synthetic peptide

Catalog # BP5668b

Specification

ADCYAP1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession

[P18509](#)

Other Accession

[NP_001093203.1](#)**ADCYAP1 Antibody (C-term) Blocking peptide - 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

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ADCYAP1 Antibody (C-term) Blocking peptide - Protein InformationName 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: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.

ADCYAP1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

ADCYAP1 Antibody (C-term) Blocking peptide - Images

ADCYAP1 Antibody (C-term) Blocking peptide - Background

ADCYAP1 is adenylate cyclase activating polypeptide1. Mediated by adenylate cyclase activating polypeptide 1receptors, this polypeptide stimulates adenylate cyclase andsubsequently increases the cAMP level in target cells. Adenylatecyclase activating polypeptide 1 is not only a hypophysiotropichormone, but also functions as a neurotransmitter andneuromodulator. In addition, it plays a role in paracrine andautocrine regulation of certain types of cells. This gene encodesthree different mature peptides, including two isotypes, a shorterform and a longer form.

ADCYAP1 Antibody (C-term) Blocking peptide - References

Hosoya, M., et al. Biochim. Biophys. Acta 1129(2):199-206(1992)Ohkubo, S., et al. DNA Cell Biol. 11(1):21-30(1992)Kimura, C., et al. Biochem. Biophys. Res. Commun. 166(1):81-89(1990)