

ADCYAP1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AM8670b**Specification**

ADCYAP1 Antibody - Product Information

Application	WB,E
Primary Accession	P18509
Reactivity	Human
Predicted	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG1, κ
Calculated MW	18835

ADCYAP1 Antibody - 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

Target/Specificity

This ADCYAP1 antibody is generated from a mouse immunized with a recombinant protein from the human region of human ADCYAP1.

Dilution

WB~~1:8000

E~~Use at an assay dependent concentration.

Format

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

Storage

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

Precautions

ADCYAP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ADCYAP1 Antibody - 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:[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](#)).

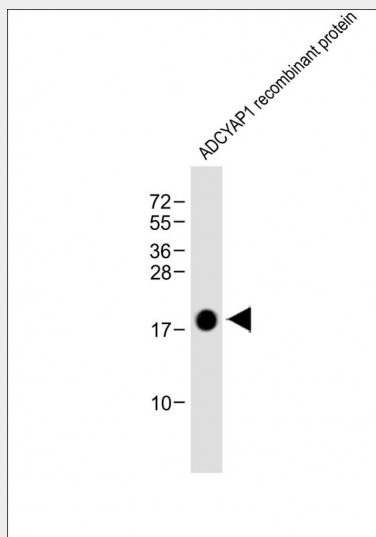
Cellular Location
Secreted.

ADCYAP1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ADCYAP1 Antibody - Images



Anti-ADCYAP1 Antibody at 1:8000 dilution + ADCYAP1 recombinant protein Lysates/proteins at 20ng per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 18 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

ADCYAP1 Antibody - Background

Binding to its receptor activates G proteins and stimulates adenylate cyclase in pituitary cells.

Promotes neuron projection development through the RAPGEF2/Rap1/B-Raf/ERK pathway.

ADCYAP1 Antibody - References

Ohkubo S.,et al.DNA Cell Biol. 11:21-30(1992).
Hosoya M.,et al.Biochim. Biophys. Acta 1129:199-206(1992).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Kimura C.,et al.Biochem. Biophys. Res. Commun. 166:81-89(1990).
Emery A.C.,et al.Sci. Signal. 6:RA51-RA51(2013).