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PACAP-38 Rabbit pAb

Catalog # AP99906

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P18509
Other Accession	P18509
Reactivity	Rat, Human, Mouse
Predicted	Pig, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	18835
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human PACAP-38
Epitope Specificity	31-38/38 (162-169/176)
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glucagon family.
SUBUNIT	Interacts with ADCYAP1R1 (via N-terminal extracellular domain).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a secreted proprotein that is further processed into multiple mature peptides. These peptides stimulate adenylate cyclase and increase cyclic adenosine monophosphate (cAMP) levels, resulting in the transcriptional activation of target genes. The products of this gene are key mediators of neuroendocrine stress responses. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2013]

Additional Information

Gene ID	116
Other Names	PACAP; PACA_HUMAN; ADCYAP1; adenylate cyclase activating polypeptide 1; adenylate cyclase activating polypeptide 1 (pituitary); prepro-PACAP; pituitary adenylate cyclase activating polypeptide
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

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:32004469, 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, PubMed:32004469).
Cellular Location	Secreted.

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