ADCYAP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ADCYAP1, Polyclonal Antibody
Full Product Name	ADCYAP1 Polyclonal Antibody
Product Gene Name	anti-ADCYAP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	18kDa
OMIM	102980
3D Structure	ModBase 3D Structure for P18509
Immunogen	A synthetic peptide of human ADCYAP1 (NP_001108.2).
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ADCYAP1 antibody	Western Blot (WB)
Application Notes for anti-ADCYAP1 antibody	WB: 1:500-1:2000
Related Product Information for anti-ADCYAP1 antibody	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.
Other Notes	Small volumes of anti-ADCYAP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ADCYAP1 purchase	MBS8566721 is an antibody targeting ADCYAP1. Also known as ADCYAP1 Polyclonal Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADCYAP1. It may not necessarily be applicable to this product.

NCBI GI #	1132550
NCBI GeneID	116
NCBI Accession #	CAA42962.1
UniProt Primary Accession #	P18509

UniProt Related Accession #	P18509
NCBI Official Full Name	PACAP
NCBI Official Synonym Full Names	adenylate cyclase activating polypeptide 1
NCBI Official Symbol	ADCYAP1
NCBI Official Synonym Symbols	PACAP
UniProt Protein Name	Pituitary adenylate cyclase-activating polypeptide
UniProt Synonym Protein Names	PRP-48
Protein Family	Glucagon family neuropeptides
UniProt Gene Name	ADCYAP1
UniProt Synonym Gene Names	PACAP; PACAP-27; PACAP27; PACAP-38; PACAP38
UniProt Entry Name	PACA_HUMAN
NCBI Protein Information	pituitary adenylate cyclase-activating polypeptide
UniProt Comments for ADCYAP1	ADCYAP1: Binding to its receptor activates G proteins and stimulates adenylate cyclase in pituitary cells. Belongs to the glucagon family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 18p11 Cellular Component: extracellular space; extracellular region; terminal button Molecular Function: neuropeptide hormone activity; peptide hormone receptor binding; receptor signaling protein activity; pituitary adenylate cyclase-activating peptide receptor binding; pituitary adenylate cyclase activating polypeptide activity; receptor binding Biological Process: behavioral fear response; nerve growth factor receptor signaling pathway; negative regulation of potassium ion transport; female pregnancy; sensory perception of pain; positive regulation of vasodilation; positive regulation of synaptic transmission, glutamatergic; negative regulation of cell cycle; histamine secretion; elevation of cytosolic calcium ion concentration; cAMP-mediated signaling; regulation of protein localization; cell-cell signaling; ovarian follicle development; neuropeptide signaling pathway; positive regulation of cell proliferation; neurite development; negative regulation of acute inflammatory response to antigenic stimulus; adenylate cyclase activation; positive regulation of interleukin-6 production; response to starvation; positive regulation of growth hormone secretion; ATP metabolic process; response to ethanol; regulation of postsynaptic membrane potential; pituitary gland development; positive regulation of protein kinase activity; positive regulation of transcription from RNA polymerase II promoter; negative regulation of acute inflammatory response to non-antigenic stimulus; transmembrane receptor protein tyrosine kinase signaling pathway; regulation of G-protein coupled receptor protein signaling pathway
Research Articles on ADCYAP1	**1.** Investigation of the mechanism of action suggested that a PACAP metabolite, identified as PACAP(9-38), might indeed be responsible for the observed PACAP38 antibacterial action. Surprisingly, PACAP(9-38), which does not induce haemolysis, exhibits an increased specificity toward Burkholderia cenocepacia J2315 compared to other tested bacteria.
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