

# Rat Pituitary adenylate cyclase-activating polypeptide (ADCYAP1) ELISA Kit



Catalog No: #EK7725

Orders: order@signalwayantibody.com

Package Size: #EK7725-1 48T #EK7725-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rat Pituitary adenylate cyclase-activating polypeptide (ADCYAP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat ( <i>Rattus norvegicus</i> )
Other Names	MGC126852; PACAP; OTTHUMP00000162201 adenylate cyclase activating polypeptide
Accession No.	P32215
Uniprot	P32215
GeneID	24167;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

## Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:3.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate ADCYAP1 in samples. An antibody specific for ADCYAP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADCYAP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADCYAP1 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ADCYAP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Pituitary adenylate cyclase-activating peptide, adenylate cyclase-activating polypeptide 1. Mediated by adenylate cyclase-activating polypeptide 1 receptors, this polypeptide stimulates adenylate cyclase and subsequently increases the cAMP level in target cells.

Adenylate cyclase-activating polypeptide 1 not only is a hypophysiotropic hormone but also functions as a neurotransmitter and neuromodulator. In addition, it plays a role in paracrine and autocrine regulation of certain types of cells. This gene is composed of five exons. Exons 1 and 2 encode the 5' UTR and signal peptide, respectively; exon 4 encodes an adenylate cyclase-activating polypeptide 1-related peptide; and exon 5 encodes the mature peptide and 3' UTR.

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Note: This product is for in vitro research use only