

## Mouse Pituitary Adenylate Cyclase Activating Peptide (PACAP) ELISA Kit | PACAP elisa kit

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CATALOG #  
**AAA190292**

REACTIVITY  
**Mouse**

### PRODUCT SYNONYMS

Pituitary Adenylate Cyclase Activating Peptide (PACAP); Mouse Pituitary Adenylate Cyclase Activating Peptide (PACAP) ELISA Kit; PACAP ELISA kit (Mouse); Pituitary Adenylate Cyclase Activating Peptide; ADCYAP1; PRP-48; PACAP elisa kit

### PRODUCT SPECIFICATIONS

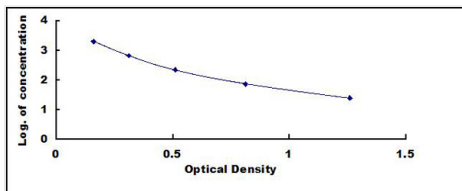
|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of Pituitary Adenylate Cyclase Activating Peptide (PACAP). No significant cross-reactivity or interference between Pituitary Adenylate Cyclase Activating Peptide (PACAP) and analogues was observed.<br>Reactive with Mouse PACAP/Pituitary Adenylate Cyclase Activating Peptide                                                                                                                                                                                                                                                                                                                                                                                               |
| Assay Type              | Competitive Inhibition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Samples                 | Serum, Plasma, Tissue homogenates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Detection Range         | 24.69-2,000pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sensitivity             | 9.19pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sample Size             | 50uL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Detection Method        | Colormetric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Featured Series         | CE kit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Precision               | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Pituitary Adenylate Cyclase Activating Peptide (PACAP) were tested 20 times on one plate, respectively.<br>Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Pituitary Adenylate Cyclase Activating Peptide (PACAP) were tested on 3 different plates, 8 replicates in each plate.<br>CV(%) = SD/meanX100<br>Intra-Assay: CV<10%, Inter-Assay: CV<12%                                                                                                                                                                                                                                                            |
| Function                | Detects small molecule                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Assay Procedure Summary | <ol style="list-style-type: none"> <li>1. Prepare all reagents, samples and standards</li> <li>2. Add 50ul standard or sample to each well. And then add 50ul prepared Detection Reagent A immediately. Shake and mix. Incubate 1 hour at 37 degree C</li> <li>3. Aspirate and wash 3 times</li> <li>4. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C</li> <li>5. Aspirate and wash 5 times</li> <li>6. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C</li> <li>7. Add 50ul Stop Solution. Read at 450 nm immediately.</li> </ol>                                                                                                                                                                      |
| Test Principle          | This assay employs the competitive inhibition enzyme immunoassay technique. An antibody specific to ADCYAP1 has been pre-coated onto a microplate. A competitive inhibition reaction is launched between biotin labeled ADCYAP1 and unlabeled ADCYAP1 (Standards or samples) with the pre-coated antibody specific to ADCYAP1. After incubation the unbound conjugate is washed off. Next, avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. The amount of bound HRP conjugate is reverse proportional to the concentration of ADCYAP1 in the sample. After addition of the substrate solution, the intensity of color developed is reverse proportional to the concentration of ADCYAP1 in the sample. |
| Research Area           | Endocrinology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Preparation and Storage

Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life)

The stability of 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. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

## IMAGES



Standard Curve (Sample)

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                            |
|----------------------------------|----------------------------------------------------------------------------|
| NCBI GI #                        | 937500806                                                                  |
| NCBI GeneID                      | 11516                                                                      |
| NCBI Accession #                 | NP_001302432.1                                                             |
| NCBI GenBank Nucleotide #        | NM_001315503.1                                                             |
| UniProt Accession #              | O70176                                                                     |
| Molecular Weight                 | 19,381 Da                                                                  |
| NCBI Official Full Name          | pituitary adenylate cyclase-activating polypeptide isoform 1 preproprotein |
| NCBI Official Synonym Full Names | adenylate cyclase activating polypeptide 1                                 |
| NCBI Official Symbol             | Adcyap1                                                                    |
| NCBI Official Synonym Symbols    | PACAP                                                                      |
| NCBI Protein Information         | pituitary adenylate cyclase-activating polypeptide                         |
| UniProt Protein Name             | Pituitary adenylate cyclase-activating polypeptide                         |
| UniProt Gene Name                | <b>Adcyap1</b>                                                             |
| UniProt Synonym Gene Names       | Pacap; PACAP; PACAP-27; PACAP27; PACAP-38; PACAP38                         |
| UniProt Entry Name               | PACA_MOUSE                                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/pituitary-adenylate-cyclase-activating-peptide-pacap/190292>