

# Human Pituitary adenylate cyclase-activating polypeptide ELISA Kit | ADCYAP1 elisa kit

Human Pituitary adenylate cyclase-activating polypeptide ELISA Kit

CATALOG #  
**AAA98238**

REACTIVITY  
**Human**

## PRODUCT SYNONYMS

Pituitary adenylate cyclase-activating polypeptide; Human Pituitary adenylate cyclase-activating polypeptide ELISA Kit; PACAP/Pituitary adenylate cyclase-activating polypeptide/ADCYAP1; ADCYAP1 elisa kit

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of ADAMTS5. No significant cross-reactivity or interference between ADAMTS5 and analogues was observed.                              |
| Sequence Length         | 176                                                                                                                                                                                                          |
| Assay Type              | Sandwich ELISA, Double Antibody                                                                                                                                                                              |
| Samples                 | Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples                                                                                                                         |
| Detection Range         | 7.813-500pg/ml                                                                                                                                                                                               |
| Sensitivity             | 4.688pg/ml                                                                                                                                                                                                   |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level ADAMTS5 were tested 20 times on one plate, respectively. Intra-Assay: CV<8%                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level ADAMTS5 were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10% |
| Preparation and Storage | Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C                                                 |

## IMAGES

### Typical Data & Standard Curve

Results of a typical standard operation of a ADCYAP1 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

| X | pg/ml | 0    | 7.812 | 15.625 | 31.25 | 62.5  | 125   | 250   | 500   |
|---|-------|------|-------|--------|-------|-------|-------|-------|-------|
| Y | OD450 | 0.07 | 0.13  | 0.194  | 0.348 | 0.685 | 1.091 | 1.762 | 2.329 |

Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for ADCYAP1 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-ADAMTS5 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-ADAMTS5 antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the ADAMTS5 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of ADAMTS5 can be calculated.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                  |
|----------------------------------|------------------------------------------------------------------|
| NCBI GI #                        | 153266795                                                        |
| NCBI GeneID                      | 116                                                              |
| NCBI Accession #                 | NP_001108.2                                                      |
| NCBI GenBank Nucleotide #        | NM_001117.4                                                      |
| Molecular Weight                 | 18,835 Da                                                        |
| NCBI Official Full Name          | pituitary adenylate cyclase-activating polypeptide preproprotein |
| NCBI Official Synonym Full Names | adenylate cyclase activating polypeptide 1 (pituitary)           |
| 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-27; PACAP27; PACAP-38; PACAP38                      |
| UniProt Entry Name               | PACA_HUMAN                                                       |

**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/adcyap1-human-elisa-kits/pituitary-adenylate-cyclase-activating-polypeptide/98238>