

## Rat Adenylyl Cyclase Associated Protein 1 ELISA Kit | CAP1 elisa kit

Rat Adenylyl Cyclase Associated Protein 1 ELISA Kit

CATALOG #  
**AAA16322**

REACTIVITY  
**Rat**

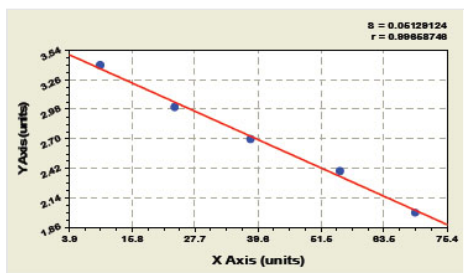
### PRODUCT SYNONYMS

Adenylyl Cyclase Associated Protein 1; Rat Adenylyl Cyclase Associated Protein 1 ELISA Kit; CAP1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                    |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                             |
| Assay Type              | Competitive                                                                                                                                                                            |
| Detection Range         | 50-1000 ng/mL                                                                                                                                                                          |
| Sensitivity             | 1.0ng/mL                                                                                                                                                                               |
| Intended Uses           | This ACAP1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Rat ACAP1. This ELISA kit for research use only, not for therapeutic applications  |
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| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                    |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for CAP1 elisa kit

**Principle of the Assay:** ACAP1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-ACAP1 antibody and an ACAP1-HRP conjugate. The assay sample and buffer are incubated together with ACAP1-HRP conjugate in pre-coated plate for one hour. After the incubation period, the wells are decanted and washed five times. The wells are then incubated with a substrate for HRP enzyme. The product of the enzyme-substrate reaction forms a blue colored complex. Finally, a stop solution is added to stop the reaction, which will then turn the solution yellow. The intensity of color is measured spectrophotometrically at 450nm in a microplate reader. The intensity of the color is inversely proportional to the ACAP1 concentration since ACAP1 from samples and ACAP1-HRP conjugate compete for the anti-ACAP1 antibody binding site. Since the number of sites is limited, as more sites are occupied by ACAP1 from the sample, fewer sites are left to bind ACAP1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The ACAP1 concentration in each sample is interpolated from this standard curve.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 3250916                                                                                                                                                               |
| NCBI GeneID                      | 117287                                                                                                                                                                |
| UniProt Accession #              | O88767                                                                                                                                                                |
| Molecular Weight                 | 19,974 Da                                                                                                                                                             |
| NCBI Official Full Name          | CAP1                                                                                                                                                                  |
| NCBI Official Synonym Full Names | parkinson protein 7                                                                                                                                                   |
| NCBI Official Symbol             | Park7                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | Dj1; CAP1; DJ-1; SP22                                                                                                                                                 |
| NCBI Protein Information         | protein DJ-1; fertility protein SP22; contraception-associated protein 1; parkinson disease protein 7 homolog; Parkinson disease (autosomal recessive, early onset) 7 |
| UniProt Protein Name             | Protein DJ-1                                                                                                                                                          |
| UniProt Gene Name                | <b>Park7</b>                                                                                                                                                          |
| UniProt Synonym Gene Names       | Cap1; Protein CAP1                                                                                                                                                    |
| UniProt Entry Name               | PARK7_RAT                                                                                                                                                             |

**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/cap1-rat-elisa-kits/adenylyl-cyclase-associated-protein-1/16322>