

## Mouse A Kinase Anchor Protein 1 ELISA Kit | AKAP1 elisa kit

Mouse A Kinase Anchor Protein 1 ELISA Kit

CATALOG #  
**AAA82131**

REACTIVITY  
**Mouse**

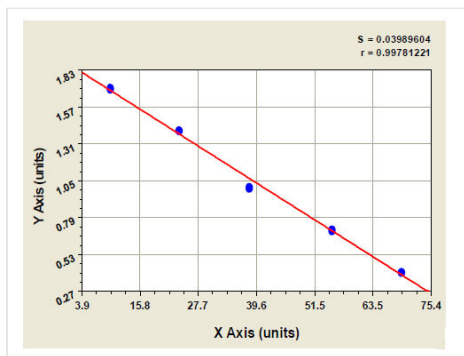
### PRODUCT SYNONYMS

A Kinase Anchor Protein 1; Mouse A Kinase Anchor Protein 1 ELISA Kit; AKAP1 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                                                    |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                               |
| Assay Type              | Competitive                                                                                                                                                                              |
| Detection Range         | 2.5-50ng/mL                                                                                                                                                                              |
| Sensitivity             | 0.1ng/mL                                                                                                                                                                                 |
| Intended Uses           | This AKAP1 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse AKAP1. This ELISA kit for research use only, not for therapeutic applications! |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                                                                                                                                      |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for AKAP1 elisa kit

**Principle of the assay:** AKAP1 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-AKAP1 antibody and an AKAP1-HRP conjugate. The assay sample and buffer are incubated together with AKAP1-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 AKAP1 concentration since AKAP1 from samples and AKAP1-HRP conjugate compete for the anti-AKAP1 antibody binding site. Since the number of sites is limited, as more sites are occupied by AKAP1 from the sample, fewer sites are left to bind AKAP1-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The AKAP1 concentration in each sample is interpolated from this standard curve.

## NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 339275976                                                                                                                                                                                                                                                                                                             |
| NCBI GeneID                      | 8165                                                                                                                                                                                                                                                                                                                  |
| NCBI Accession #                 | NP_001229832.1                                                                                                                                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_001242903.1                                                                                                                                                                                                                                                                                                        |
| Molecular Weight                 | 62,921 Da                                                                                                                                                                                                                                                                                                             |
| NCBI Official Full Name          | A-kinase anchor protein 1, mitochondrial                                                                                                                                                                                                                                                                              |
| NCBI Official Synonym Full Names | A kinase (PRKA) anchor protein 1                                                                                                                                                                                                                                                                                      |
| NCBI Official Symbol             | AKAP1                                                                                                                                                                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | AKAP; PRKA1; AKAP84; TDRD17; AKAP121; AKAP149; D-AKAP1; PPP1R43; SAKAP84                                                                                                                                                                                                                                              |
| NCBI Protein Information         | A-kinase anchor protein 1, mitochondrial; AKAP 149; D-AKAP-1; protein kinase A1; tudor domain containing 17; A-kinase anchor protein 149 kDa; protein kinase A anchoring protein 1; spermatid A-kinase anchor protein 84; protein phosphatase 1, regulatory subunit 43; dual-specificity A-kinase anchoring protein 1 |
| UniProt Protein Name             | A-kinase anchor protein 1, mitochondrial                                                                                                                                                                                                                                                                              |
| UniProt Gene Name                | <b>AKAP1</b>                                                                                                                                                                                                                                                                                                          |
| UniProt Synonym Gene Names       | AKAP149; PRKA1; AKAP 149; D-AKAP-1; PRKA1; S-AKAP84                                                                                                                                                                                                                                                                   |
| UniProt Entry Name               | AKAP1_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.