

## Porcine Ca<sup>2+</sup>/calmodulin-dependent protein kinase ELISA Kit | CaM kinase elisa kit

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CATALOG #  
**AAA95584**

REACTIVITY  
**Porcine**

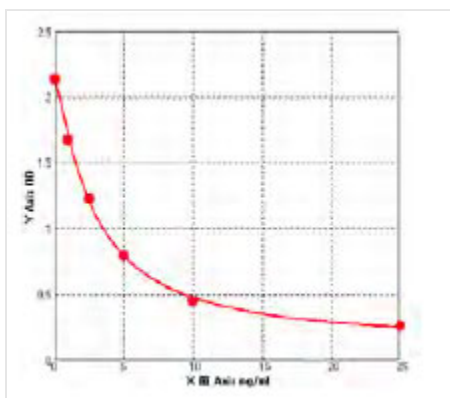
### PRODUCT SYNONYMS

Ca<sup>2+</sup>/calmodulin-dependent protein kinase; Porcine Ca<sup>2+</sup>/calmodulin-dependent protein kinase ELISA Kit; CaM kinase elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                            |
|-------------------------|----------------------------------------------------------------------------|
| Reactivity              | Porcine                                                                    |
| Samples                 | Serum, Plasma, Cell Culture Supernatants, Body Fluid And Tissue Homogenate |
| Assay Type              | Quantitative Competitive                                                   |
| Sensitivity             | 0.1 ng/mL.                                                                 |
| Preparation and Storage | Store all reagents at 2-8 degree C.                                        |

### IMAGES



Standard Curve (Sample)

### ADDITIONAL INFORMATION

#### Related Product Information for CaM kinase elisa kit

**Intended Uses:** This CAMP ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Chicken CAMP. This ELISA kit for research use only!

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

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 442614537                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NCBI GeneID                      | 43828                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| NCBI Accession #                 | NP_001259084.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | NM_001272155.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Molecular Weight                 | 55,482 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NCBI Official Full Name          | Calcium/calmodulin-dependent protein kinase II, isoform M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NCBI Official Synonym Full Names | Calcium/calmodulin-dependent protein kinase II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| NCBI Official Symbol             | CaMKII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | Ca2+/calmodulin-dependent protein kinase II; Calcium/calmodulin-dependent protein kinase; calcium/calmodulin-dependent protein kinase II; Cam; CaM; CaM II; CaM KII; CaM kinase; CaMK II; CaMK-II; camKII; Camkii; CamKII; CAMKII; CamKIIalpha; CAMKIIalpha; CA                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NCBI Protein Information         | CG18069 gene product from transcript CG18069-RK; CG18069-PA; CG18069-PB; CG18069-PC; CG18069-PD; CG18069-PE; CG18069-PG; CG18069-PH; CG18069-PI; CG18069-PJ; CG18069-PK; CG18069-PL; CG18069-PM; Ca2+ calmodulin-dependent kinase II; CaM kinase; CaM kinase II; CaM-kinase-II; CaMKII-PA; CaMKII-PB; CaMKII-PC; CaMKII-PD; CaMKII-PE; CaMKII-PG; CaMKII-PH; CaMKII-PI; CaMKII-PJ; CaMKII-PK; CaMKII-PL; CaMKII-PM; Ca[2+]/calmodulin-dependent protein kinase II; Calcium/calmodulin-dependent protein kinase; Calcium/calmodulin-dependent protein kinase II; calcium/ calmodulin-dependent protein kinase II; calcium/calmodulin-dependent protein kinase II; calmodulin kinase II; lethal (4) 102EFb |
| UniProt Protein Name             | Calcium/calmodulin-dependent protein kinase type II alpha chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| UniProt Gene Name                | CaMKII                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt Synonym Gene Names       | CaM; CG18069; CaM-kinase II alpha chain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| UniProt Entry Name               | KCC2A_DROME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

**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/cam-kinase-porcine-elisa-kits/ca2-calmodulin-dependent-protein-kinase/95584>