

## Goat Calcium/calmodulin-dependent protein kinase-II ELISA Kit | CAMK2 elisa kit

Goat Calcium/calmodulin-dependent protein kinase-II ELISA Kit

CATALOG #  
**AAA94122**

REACTIVITY  
**Goat**

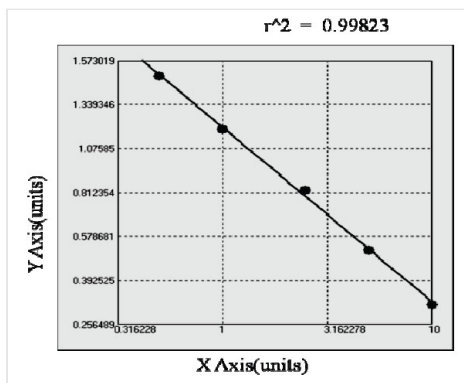
### PRODUCT SYNONYMS

Calcium/calmodulin-dependent protein kinase-II; Goat Calcium/calmodulin-dependent protein kinase-II ELISA Kit; CAMK2 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Goat                                                                                                                                                                                    |
| Samples                 | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate                                                                                                              |
| Assay Type              | Competitive                                                                                                                                                                             |
| Intended Uses           | This CAMK2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Goat CAMK2. 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 CAMK2 elisa kit

**Principle of the Assay:** CAMK2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a monoclonal anti-CAMK2 antibody and an CAMK2-HRP conjugate. The assay sample and buffer are incubated together with CAMK2-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 CAMK2 concentration since CAMK2 from samples and CAMK2-HRP conjugate compete for the anti-CAMK2 antibody binding site. Since the number of sites is limited, as more sites are occupied by CAMK2 from the sample, fewer sites are left to bind CAMK2-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAMK2 concentration in each sample is interpolated from this standard curve.

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 26051218                                                                                                                                                                                       |
| NCBI GeneID                      | 816                                                                                                                                                                                            |
| NCBI Accession #                 | NP_742081.1                                                                                                                                                                                    |
| NCBI GenBank Nucleotide #        | NM_172084.2                                                                                                                                                                                    |
| Molecular Weight                 | 57,938 Da                                                                                                                                                                                      |
| NCBI Official Full Name          | calcium/calmodulin-dependent protein kinase type II subunit beta isoform 8                                                                                                                     |
| NCBI Official Synonym Full Names | calcium/calmodulin-dependent protein kinase II beta                                                                                                                                            |
| NCBI Official Symbol             | CAMK2B                                                                                                                                                                                         |
| NCBI Official Synonym Symbols    | CAM2; CAMK2; CAMKB                                                                                                                                                                             |
| NCBI Protein Information         | calcium/calmodulin-dependent protein kinase type II subunit beta; caMK-II subunit beta; CaM-kinase II beta chain; CaM kinase II beta subunit; proline rich calmodulin-dependent protein kinase |
| UniProt Protein Name             | Calcium/calmodulin-dependent protein kinase type II subunit beta                                                                                                                               |
| UniProt Gene Name                | <b>CAMK2B</b>                                                                                                                                                                                  |
| UniProt Synonym Gene Names       | CAM2; CAMK2; CAMKB; CaM kinase II subunit beta; CaMK-II subunit beta                                                                                                                           |
| UniProt Entry Name               | KCC2B_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/camk2-goat-elisa-kits/calcium-calmodulin-dependent-protein-kinase-ii/94122>