

# Human Calcium/Calmodulin Dependent Protein Kinase II Gamma (CAMK2g) ELISA Kit | CAMK2g elisa kit

Human Calcium/Calmodulin Dependent Protein Kinase II Gamma (CAMK2g)(Sandwich ELISA) ELISA Kit

|                               |                            |                              |
|-------------------------------|----------------------------|------------------------------|
| CATALOG #<br><b>AAA150861</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA</b> |
|-------------------------------|----------------------------|------------------------------|

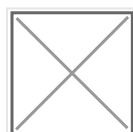
## PRODUCT SYNONYMS

Calcium/Calmodulin Dependent Protein Kinase II Gamma (CAMK2g); Human Calcium/Calmodulin Dependent Protein Kinase II Gamma (CAMK2g)(Sandwich ELISA) ELISA Kit; ELISA Kit for Calcium/Calmodulin Dependent Protein Kinase II Gamma (CAMK2g); CAMK2g/Calcium/Calmodulin Dependent Protein Kinase II Gamma; CAMKII; CAMK2G; CAMK; CAMK-II; CAMKG; CaM Kinase; CaM kinase II subunit gamma; CaMK-II subunit gamma; CAMK2g elisa kit

## PRODUCT SPECIFICATIONS

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                   | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Specificity                                  | This assay has high sensitivity and excellent specificity for detection of CAMK2g. No significant cross-reactivity or interference between CAMK2g and analogues was observed.                                                                                                                                                                                                                                                                                                                                                                                              |
| Assay Type                                   | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Samples                                      | Human tissue homogenates, cell lysates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Detection Range                              | 0.156-10ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity                                  | < 0.063ng/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for CAMK2g elisa kit | ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Intra-assay Precision                        | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level CAMK2g were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                                                                                                   |
| Inter-assay Precision                        | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level CAMK2g were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                      | Store at 4 degree C for 1 month; -20 degree C for long-term (within shelf life)<br>The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

## IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for CAMK2g elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to CAMK2g. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to CAMK2g. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain CAMK2g, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of CAMK2g in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of CAMK2g in human tissue homogenates, cell lysates and other biological fluids.</p> |
| Product Categories/Family for CAMK2g elisa kit   | Enzyme & Kinase; Metabolic pathway; Gastroenterology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 62512173                                                                                                                                                    |
| NCBI GeneID                      | 818                                                                                                                                                         |
| UniProt Accession #              | Q13555; O00561; O15378; Q13279; Q13282; Q13556; Q5SQZ3; Q5SQZ4; Q5SWX4; Q7KYX5; Q8N4I3; Q8NIA4                                                              |
| Molecular Weight                 | 558                                                                                                                                                         |
| NCBI Official Full Name          | Calcium/calmodulin-dependent protein kinase type II subunit gamma                                                                                           |
| NCBI Official Synonym Full Names | calcium/calmodulin-dependent protein kinase II gamma                                                                                                        |
| NCBI Official Symbol             | CAMK2G                                                                                                                                                      |
| NCBI Official Synonym Symbols    | CAMK; CAMKG; CAMK-II                                                                                                                                        |
| NCBI Protein Information         | calcium/calmodulin-dependent protein kinase type II subunit gamma; caMK-II subunit gamma; calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma |
| UniProt Protein Name             | Calcium/calmodulin-dependent protein kinase type II subunit gamma                                                                                           |
| UniProt Gene Name                | CAMK2G                                                                                                                                                      |
| UniProt Synonym Gene Names       | CAMK; CAMK-II; CAMKG; CaM kinase II subunit gamma; CaMK-II subunit gamma                                                                                    |
| UniProt Entry Name               | KCC2G_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/human-elisa-kits/calcium-calmodulin-dependent-protein-kinase-ii-gamma-camk2g/150861>