

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

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CATALOG #
AAA83155

REACTIVITY
Mouse

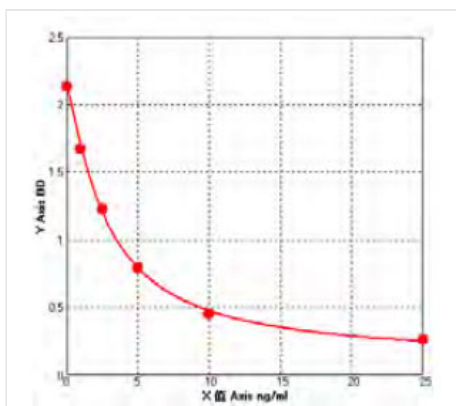
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CAMK2. No significant cross-reactivity or interference between CAMK2 and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAMK2 and all the analogues, therefore, cross reaction may still exist in some cases.
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 CAMK2 elisa kit	Intended Uses: This CAMK2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CAMK2. This ELISA kit for research use only, not for therapeutic or test applications! Principle of the Assay: CAMK2 ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal 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.
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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	CAMK2B
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.