

Human Ca²⁺/calmodulin dependent protein kinase ELISA Kit | CaM kinase elisa kit

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CATALOG #
AAA17215

REACTIVITY
Human

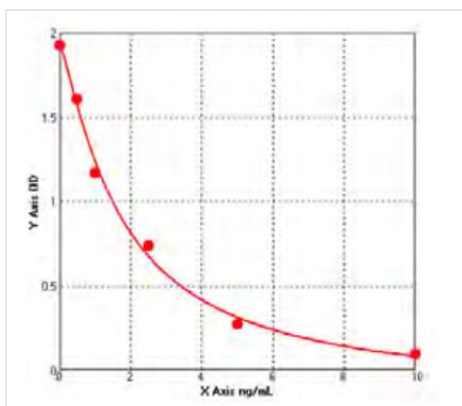
PRODUCT SYNONYMS

Ca²⁺/calmodulin dependent protein kinase; Human Ca²⁺/calmodulin dependent protein kinase ELISA Kit; CaM kinase elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of CAMK. No significant cross-reactivity or interference between CAMK and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAMK and all the analogues, therefore, cross reaction may still exist in some cases.
Assay Type	Quantitative Competitive
Samples	Serum, plasma, cell culture supernatants, body fluid d tissue homogenat
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	Principle of the Assay: CAMK ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CAMK antibody and an CAMK-HRP conjugate. The assay sample and buffer are incubated together with CAMK-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 CAMK concentration since CAMK from samples and CAMK-HRP conjugate compete for the anti-CAMK antibody binding site. Since the number of sites is limited, as more sites are occupied by CAMK from the sample, fewer sites are left to bind CAMK-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAMK concentration in each sample is interpolated from this standard curve. Intended Uses: This CAMK ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Human CAMK. This ELISA kit for research use only, not for therapeutic or diagnostic applications!
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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.