Bovine calcium/calmodulin-dependent protein kinase- II (CAMK 2) ELISA Kit | CAMK2G elisa kit

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CATALOG #	REACTIVITY
AAA244264	**Bovine**

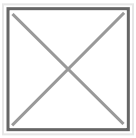
PRODUCT SYNONYMS

calcium/calmodulin-dependent protein kinase- II (CAMK 2); Bovine calcium/calmodulin-dependent protein kinase- II (CAMK 2) ELISA Kit; CAMK2G elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Bovine
Samples	Serum, plasma, cell culture supernatants, body fluid and tissue homogenate
Assay Type	Competitive (Quantitative)
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 CAMK2G elisa kit	Intended Uses: This CAMK2 ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Bovine CAMK2. This ELISA kit for research use only! 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 #	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/camk2g-bovine-ovine-elisa-kits/calcium-calmodulin-dependent-protein-kinase-ii-camk-2/244264