

Mouse Calcium/calmodulin-dependent protein kinase type II subunit beta (CAMK2B) ELISA Kit | CAMK2B elisa kit

Mouse Calcium/calmodulin-dependent protein kinase type II subunit beta (CAMK2B) ELISA Kit

CATALOG #
AAA246022

REACTIVITY
Mouse

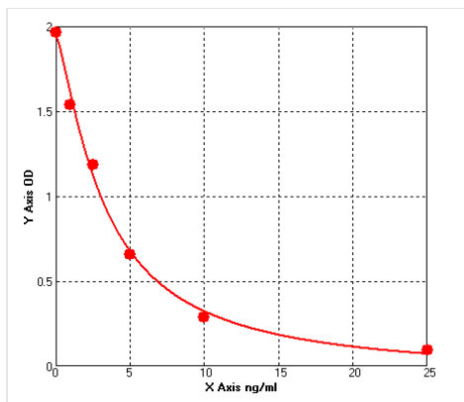
PRODUCT SYNONYMS

Calcium/calmodulin-dependent protein kinase type II subunit beta (CAMK2B); Mouse Calcium/calmodulin-dependent protein kinase type II subunit beta (CAMK2B) ELISA Kit; CAMK2B elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of CAMK2B. No significant cross-reactivity or interference between CAMK2B and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection between CAMK2B 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 and tissue homogenate
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 CAMK2B elisa kit	Principle of the Assay: CAMK2B ELISA kit applies the competitive enzyme immunoassay technique utilizing a polyclonal anti-CAMK2B antibody and an CAMK2B-HRP conjugate. The assay sample and buffer are incubated together with CAMK2B-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 CAMK2B concentration since CAMK2B from samples and CAMK2B-HRP conjugate compete for the anti-CAMK2B antibody binding site. Since the number of sites is limited, as more sites are occupied by CAMK2B from the sample, fewer sites are left to bind CAMK2B-HRP conjugate. A standard curve is plotted relating the intensity of the color (O.D.) to the concentration of standards. The CAMK2B concentration in each sample is interpolated from this standard curve. Intended Uses: This CAMK2B ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of Mouse CAMK2B. This ELISA kit for research use only, not for therapeutic or test applications!
--	--

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.