

Rabbit CaMKII alpha Monoclonal Antibody | anti-CAMK2A antibody

CaMKII alpha Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA312468	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

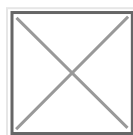
PRODUCT SYNONYMS

CaMKII alpha; Monoclonal Antibody; CaMKII alpha Antibody; Alpha CaMKII antibody; Calcium calmodulin dependent protein kinase II antibody; Calcium/calmodulin dependent protein kinase II alpha B subunit antibody; Calcium/calmodulin dependent protein kinase type II alpha chain antibody; Calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha antibody; Calcium/calmodulin-dependent protein kinase II alpha antibody; Calcium/calmodulin-dependent protein kinase II-alpha antibody; Calcium/calmodulin-dependent protein kinase type II subunit alpha antibody; Calcium/calmodulin-dependent protein kinase type IIA antibody; CaM kinase II alpha chain antibody; CaM kinase II alpha subunit antibody; CaM kinase II subunit alpha antibody; CaMK II alpha subunit antibody; CaMK-II subunit alpha antibody; Camk2a antibody; CAMKA antibody; CaMKII antibody; CaMKIIalpha antibody; EC 2.7.11.17 antibody; KCC2A_HUMAN antibody; KIAA0968 antibody; MGC123320 antibody; MGC139375 antibody; MGC155201 antibody; mKIAA0968 antibody; PK2CDD antibody; PKCCD antibody; R74975 antibody; zgc:112538 antibody; zgc:123320 antibody; anti-CAMK2A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	JM11-07
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CAMK2A antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



FCM/FACS (Flow Cytometry)

Flow cytometric analysis of SH-SY5Y cells with CaMKII alpha antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of CaMKII alpha on rat brain cells lysates using anti-CaMKII alpha antibody at 1/500 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-CAMK2A antibody	The Ca ²⁺ /calmodulin-dependent protein kinases (CaM kinases) comprise a structurally related subfamily of serine/threonine kinases which include CaMKI, CaMKII and CaMKIV. CaMKII is a ubiquitously expressed serine/threonine protein kinase that is activated by Ca ²⁺ and calmodulin (CaM) and has been implicated in regulation of the cell cycle and transcription. There are four CaMKII isozymes designated alpha, beta, gamma and delta, which may or may not be co-expressed in the same tissue type. CaMKIV is stimulated by Ca ²⁺ and CaM but also requires phosphorylation by a CaMK for full activation. Stimulation of the T cell receptor CD3 signaling complex with an anti-CD3 monoclonal antibody leads to a 10-40 fold increase in CaMKIV activity. An additional kinase, CaMKK, functions to activate CaMKI through the specific phosphorylation of the regulatory Threonine residue at position 177.
Product Categories/Family for anti-CAMK2A antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952118
NCBI GeneID	815
NCBI Accession #	NP_741960.1
NCBI GenBank Nucleotide #	NM_171825.2
UniProt Accession #	Q9UQM7; Q9UL21; Q9Y2H4; Q9Y352
Molecular Weight	54,088 Da
NCBI Official Full Name	calcium/calmodulin-dependent protein kinase type II subunit alpha isoform 2
NCBI Official Synonym Full Names	calcium/calmodulin-dependent protein kinase II alpha
NCBI Official Symbol	CAMK2A
NCBI Official Synonym Symbols	CAMKA
NCBI Protein Information	calcium/calmodulin-dependent protein kinase type II subunit alpha; CaMKIIalpha; CaMK-II alpha subunit; caMK-II subunit alpha; CaM-kinase II alpha chain; CaM kinase II alpha subunit; caM kinase II subunit alpha; calcium/calmodulin-dependent protein kinase
UniProt Protein Name	Calcium/calmodulin-dependent protein kinase type II subunit alpha
UniProt Gene Name	CAMK2A
UniProt Synonym Gene Names	CAMKA; KIAA0968; CaM kinase II subunit alpha
UniProt Entry Name	KCC2A_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/monoclonal/camkii-alpha-antibody-clone-jm11-07-flow-cytometry-immunoprecipitation-western-blot-elisa/312468>