

Rabbit CAMK2A Polyclonal Antibody | anti-CAMK2A antibody

CAMK2A Antibody (C-term E370)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284011	Rabbit	Human (Predicted Reactivity: Mouse, Rat)	Immunohistochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

CAMK2A; Polyclonal Antibody; CAMK2A Antibody (C-term E370); Calcium/calmodulin-dependent protein kinase type II subunit alpha; CaM kinase II subunit alpha; CaMK-II subunit alpha; CAMKA; KIAA0968; anti-CAMK2A antibody

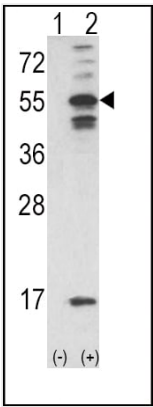
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This CAMK2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 344-371 amino acids from the C-terminal region of human CAMK2A.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	344-371
Sequence Length	478
Applicable Applications for anti-CAMK2A antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

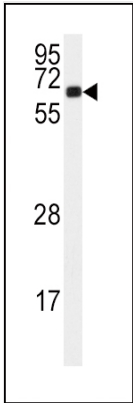
IMAGES



IHC (Immunohistochemisry)
Formalin-fixed and paraffin-embedded human brain tissue reacted with CAMK2A (C-term E370) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of CAMK2A (arrow) using rabbit polyclonal CAMK2A Antibody (C-term E370). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CAMK2A gene (Lane 2).



WB (Western Blot)
Western blot analysis of anti-CAMK2A Antibody (C-term E370) in 293 cell line lysates (35ug/lane). CAMK2A(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-CAMK2A antibody	CAMK2A belongs to the serine/threonine protein kinases family, and to the Ca(2+)/calmodulin-dependent protein kinases subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. This calcium calmodulin-dependent protein kinase is composed of four different chains: alpha, beta, gamma, and delta. The alpha chain encoded by the gene for CAMK2A is required for hippocampal long-term potentiation (LTP) and spatial learning. In addition to its calcium-calmodulin (CaM)-dependent activity, this protein can undergo autophosphorylation, resulting in CaM-independent activity.
Product Categories/Family for anti-CAMK2A antibody	Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction
References	Lee,C.W., Mol. Pharmacol. 73 (5), 1454-1464 (2008) Yuan,K., Lab. Invest. 87 (9), 938-950 (2007)

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	54088
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
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; CaMK-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://www.aaabiotech.com/polyclonal/camk2a-antibody-immunohistochemistry-western-blot-elisa/284011>