

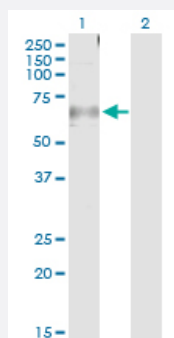
MaxPab®

CAMK2A purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00000815-D01P

Size 100 ug

Applications

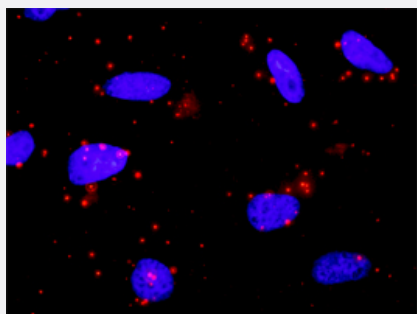


Western Blot (Transfected lysate)

Western Blot analysis of CAMK2A expression in transfected 293T cell line ([H00000815-T01](#)) by CAMK2A MaxPab polyclonal antibody.

Lane 1: CAMK2A transfected lysate(52.69 KDa).

Lane 2: Non-transfected lysate.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between CAMK2A and SMAD2. HeLa cells were stained with anti-CAMK2A rabbit purified polyclonal 1:1200 and anti-SMAD2 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Specification

Product Description

Rabbit polyclonal antibody raised against a full-length human CAMK2A protein.

Immunogen

CAMK2A (AAH40457.1, 1 a.a. ~ 478 a.a) full-length human protein.

Sequence

MATITCTRFTEEYQLFEELGKGAFSVVRRCKVLAGQEYAAKIINTKKLSARDHQKLREARICRL
KHPNIVRLHDSISEEGHHYIFDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMGGVHR
DLKPENLLLASKLKGA AVKLADFGLAIEVEGEQQAWFGFAGTPGYLSPEVLRKDPYGKPVDLWA
CGVILYLLVGYPFWDEDQHRLYKQIKAGAYDFPSPEWDTVTPEAKDLINKMLTINPSKRITAAEAL
KHPWISHRSTVASCMHRQETVDCLKKFNARRKLKGAILTTMLATRNFGSGKSGGNKKSDGVKES
SESTNTTIEDEDTKVRKQEIIVTEQLIEAISNGDFESYTKMCDPGMTAFEPEALGNLVEGLDFHRF
YFENLWSRNSKPVHTTILNPHIHLMGDESACIAYIRITQYLDAGGIPTAQSEETRVWHRDGGKWQIV
HFHRSGAPSVLPH

Host	Rabbit
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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[Protocol Download](#)

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Gene Info — CAMK2A

Entrez GeneID	815
GeneBank Accession#	BC040457
Protein Accession#	AAH40457.1
Gene Name	CAMK2A
Gene Alias	CAMKA, KIAA0968
Gene Description	calcium/calmodulin-dependent protein kinase II alpha
Omim ID	114078
Gene Ontology	Hyperlink

Gene Summary

The product of this gene 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 this gene 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. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

Other Designations

CaM kinase II alpha subunit|CaM-kinase II alpha chain|CaMK-II alpha subunit|CaMKIIAlpha|OTTHUMP00000165787|OTTHUMP00000165788|calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha|calcium/calmodulin-dependent protein kinase II alpha-B subunit

Pathway

- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Neurotrophin signaling pathway](#)
- [Olfactory transduction](#)
- [Wnt signaling pathway](#)

Disease

- [Bipolar Disorder](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)

- [Weight Gain](#)