

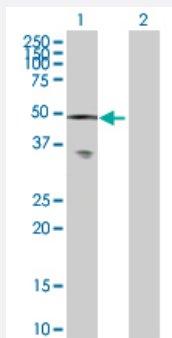
MaxPab®

CAMK2A purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00000815-B01P

Size 50 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.

Specification

Product Description

Mouse 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

MATITCTRFTEEYQLFEELGKGAFSVVRRCKVLGQEEYAAKIINTKKLSARDHQKLREARICRL
KHPNIVRLHDSISEEGHHYLFDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMGGVHR
DLKPENLLLASKLKGA AVKLADFLGLAIEVEGEQQAWFGFAGTPGYLSPEVLRKDPYGPVLDLWA
CGVILYILLVGYPFWDEDQHRLYKQIKAGAYDFPSPEWDTVTPEAKDLINKMLTINPSKRITAAEAL
KHPWISHRSTVASCMRHQETVDCLKKFNARRKLKGAILTTMLATRNFGSGKSGGNKKSDGVKES
SESTNTTIEDETKVRKQEIKVTEQLIEAISNGDFESYTKMCDPGMTAFEPEALGNLVEGLDFHRF
YFENLWSRNSKPVHTTILNPHIHLMGDESACIAYIRITQYLDAGGIPTAQSEETRVWHRRDGKWQIV
HFHRSGAPSVLPH

Host

Mouse

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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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — CAMK2A

Entrez GeneID [815](#)

GeneBank Accession# [BC040457](#)

Protein Accession# [AAH40457](#)

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|OTT HUMP00000165787|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](#)