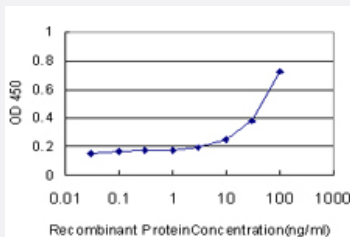


CAMK2A monoclonal antibody (M02), clone 1H7

Catalog # H00000815-M02

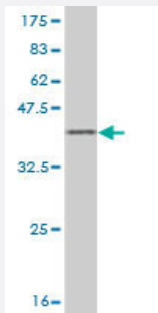
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CAMK2A is approximately 3ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.29 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant CAMK2A.

Immunogen

CAMK2A (AAH40457, 305 a.a. ~ 410 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

TTMLATRNFGSGGKSGGNKKSDGVKESSESTNTTIEDEDTKVRKQEIIKVTEQLIEAISNGDFESYTK
MCDPGMTAFEPEALGNLVEGLDFHRFYFENLWSRNSKPV

Host

Mouse

Reactivity

Human

Isotype

IgG2a Kappa

Quality Control Testing

Antibody Reactive Against Recombinant Protein.
Western Blot detection against Immunogen (37.29 KDa) .

Storage Buffer

In 1x PBS, pH 7.4

Storage Instruction

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CAMK2A is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

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|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](#)