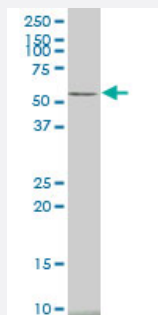


CAMK2A monoclonal antibody (M01), clone 2C4

Catalog # H00000815-M01

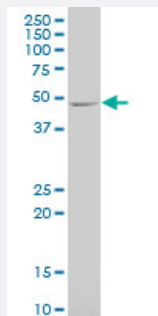
Size 100 ug

Applications



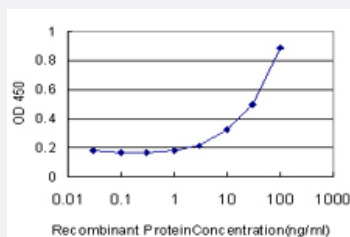
Western Blot (Tissue lysate)

CAMK2A monoclonal antibody (M01), clone 2C4. Western Blot analysis of CAMK2A expression in human stomach.



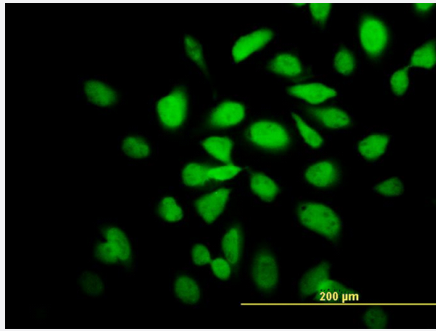
Western Blot (Cell lysate)

CAMK2A monoclonal antibody (M01), clone 2C4. Western Blot analysis of CAMK2A expression in RIN-m5F.



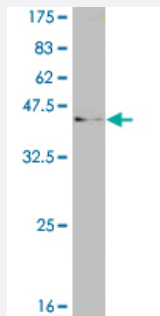
Sandwich ELISA (Recombinant protein)

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



Immunofluorescence

Immunofluorescence of monoclonal antibody to CAMK2A on HeLa cell.
[antibody concentration 10 ug/ml]



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	TTMLATRNFGSGGKSGGNKSDGVKESSESTNTTIEDEDTKVRKQEIIKVTEQLIEAISNGDFESYTK MCDPGMTAFEPEALGNLVEGLDFHRFYFENLWSRNSKPV
Host	Mouse
Reactivity	Human, Rat
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 (Tissue lysate)

CAMK2A monoclonal antibody (M01), clone 2C4. Western Blot analysis of CAMK2A expression in human stomach.

[Protocol Download](#)

- Western Blot (Cell lysate)

CAMK2A monoclonal antibody (M01), clone 2C4. Western Blot analysis of CAMK2A expression in RIN-m5F.

[Protocol Download](#)

- 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

- Immunofluorescence

Immunofluorescence of monoclonal antibody to CAMK2A on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — CAMK2A

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