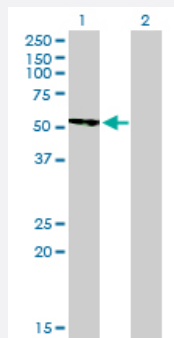


CAMK2B monoclonal antibody (M02A), clone 2D7-D8

Catalog # H00000816-M02A

Size 200 uL

Applications

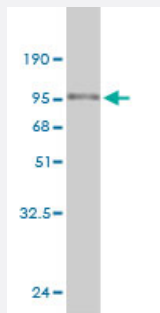


Western Blot (Transfected lysate)

Western Blot analysis of CAMK2B expression in transfected 293T cell line by CAMK2B monoclonal antibody (M02A), clone 2D7-D8.

Lane 1: CAMK2B transfected lysate(56.4 KDa).

Lane 2: Non-transfected lysate.



Western Blot detection against Immunogen (81.07 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant CAMK2B.

Immunogen

CAMK2B (AAH19070.1, 1 a.a. ~ 503 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence

MATTVTCTRFTDEYQLYEDIGKGAFSVVRRCVKLCTGHEYAAKIINTKKLSARDHQKLREARICRL
LKHSNIVRLHDSISEEGFHYLVFDLVTGGELFEDIVAREYYSEADASHCIQQILEAVLHCHQMGGVH
RDLKPENLLLASKCKGAAVKLADFGLAIEVQGDQQAWFGFAGTPGYLSPEVLRKEAYGKPVDIW
ACGVILYILLVGYPFWDEDQHKLYQQIKAGAYDFPSPEWDTVTPEAKNLINQMLTINPAKRITAHEA
LKHPWVCQRSTVASMMHRQETVECLKKFNARRKLKGAILTTMLATRNFSAAKSLNKKADGVKP
QTNSTKNSAAATSPKGTLPAALESSDSANTTIEDEDAKARKQEIIKTTEQLIEAVNNGDFEAYAKI
CDPGLTSFEPEALGNLVEGMDFHRFYFENLLAKNSKPIHTILNPHVHVIGEDAACIAYIRLTQYIDG
QGRPRTSQSEETRVWHRRDGTKWQNVHFHCSGAPVAPLQ

Host	Mouse
Reactivity	Human
Isotype	IgG
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (81.07 KDa) .
Storage Buffer	In ascites fluid
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of CAMK2B expression in transfected 293T cell line by CAMK2B monoclonal antibody (M02A), clone 2D7-D8.

Lane 1: CAMK2B transfected lysate(56.4 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — CAMK2B

Entrez GeneID	816
GeneBank Accession#	BC019070
Protein Accession#	AAH19070.1
Gene Name	CAMK2B
Gene Alias	CAM2, CAMK2, CAMKB, MGC29528
Gene Description	calcium/calmodulin-dependent protein kinase II beta
Omim ID	607707

Gene Ontology

[Hyperlink](#)

Gene Summary

The product of this gene belongs to the serine/threonine protein kinase family and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. Calcium signaling is crucial for several aspects of plasticity at glutamatergic synapses. In mammalian cells, the enzyme is composed of four different chains: alpha, beta, gamma, and delta. The product of this gene is a beta chain. It is possible that distinct isoforms of this chain have different cellular localizations and interact differently with calmodulin. Eight transcript variants encoding eight distinct isoforms have been identified for this gene. [provided by RefSeq]

Other Designations

CaM kinase II beta subunit|CaM-kinase II beta chain|CaMK-II beta subunit|OTTHUMP00000159355|OTTHUMP00000159356|calcium/calmodulin-dependent protein kinase (CaM kinase) II beta|calcium/calmodulin-dependent protein kinase type II beta chain|proline rich cal

Pathway

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

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Cognition](#)
- [NARP](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)

- [Tobacco Use Disorder](#)
- [Weight Gain](#)