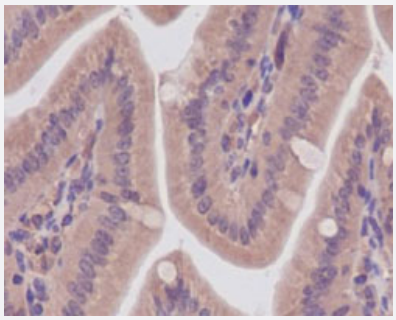
CAMK2B monoclonal antibody, clone CEC-3

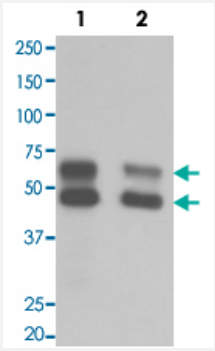
Catalog # MAB19693 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of mouse colon with CAMK2B monoclonal antibody, clone CEC-3 (Cat # MAB19693).



Western Blot (Tissue lysate)

Western Blot analysis of Lane 1: mouse brain and Lane 2: rat brain tissue lysates with CAMK2B monoclonal antibody, clone CEC-3 (Cat # MAB19693).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic peptide of human CAMK2B.
Immunogen	A synthetic peptide corresponding to human CAMK2B.
Host	Rabbit
Theoretical MW (kDa)	72.678
Reactivity	Human
Form	Liquid

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Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:50-1:200) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide).
Storage Instruction	Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and st ored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of mouse colon with CAMK2B monoclonal antibody, clone CEC-3 (Cat # MAB19693).

- Immunofluorescence

- Immunocytochemistry

- Western Blot (Tissue lysate)

  Western Blot analysis of Lane 1: mouse brain and Lane 2: rat brain tissue lysates with CAMK2B monoclonal antibody, clone CEC-3 (Cat # MAB19693).

Gene Info — CAMK2B

Entrez GeneID	816
Protein Accession#	Q13554
Gene Name	CAMK2B
Gene Alias	CAM2, CAMK2, CAMKB, MGC29528
Gene Description	calcium/calmodulin-dependent protein kinase II beta

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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

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- Schizophrenic Psychology
- Tobacco Use Disorder
- Weight Gain

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