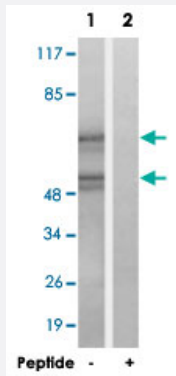


CAMK2B/CAMK2G/CAMK2D polyclonal antibody

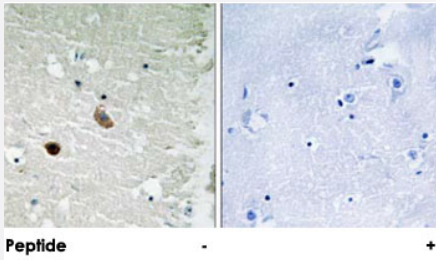
Catalog # PAB18512 Size 100 ug

Applications



Western Blot (Tissue lysate)

Western blot analysis of extracts from rat brain cells, using CAMK2B/CAMK2G/CAMK2D polyclonal antibody (Cat # PAB18512). Peptide "+" means "peptide blocking".



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

Immunohistochemical analysis of paraffin-embedded human brain tissue using CAMK2B/CAMK2G/CAMK2D polyclonal antibody (Cat # PAB18512). Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of CAMK2B/CAMK2G/CAMK2D.
Immunogen	A synthetic peptide corresponding to residues surrounding T287 of human CAMK2B/CAMK2G/CAMK2D.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to CAMK2B/CAMK2G/CAMK2D.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of extracts from rat brain cells, using CAMK2B/CAMK2G/CAMK2D polyclonal antibody (Cat # PAB18512).

Peptide "+" means "peptide blocking".

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

Immunohistochemical analysis of paraffin-embedded human brain tissue using CAMK2B/CAMK2G/CAMK2D polyclonal antibody (Cat # PAB18512).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — CAMK2B

Entrez GeneID	816
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

Gene Info — CAMK2D

Entrez GeneID

[817](#)

Gene Name

CAMK2D

Gene Alias

CAMKD, DKFZp686G23119, DKFZp686I2288, MGC44911

Gene Description

calcium/calmodulin-dependent protein kinase II delta

Omim ID

[607708](#)

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 delta chain. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Distinct isoforms of this chain have different expression patterns

Other Designations

CaM kinase II delta subunit|CaM-kinase II delta chain|CaMK-II delta subunit|OTTHUMP00000163829|OTTHUMP00000163830|calcium/calmodulin-dependent protein kinase (CaM kinase) II delta|calcium/calmodulin-dependent protein kinase type II delta chain

Gene Info — CAMK2G

Entrez GeneID

[818](#)

Gene Name

CAMK2G

Gene Alias

CAMK, CAMK-II, CAMKG, FLJ16043, MGC26678

Gene Description

calcium/calmodulin-dependent protein kinase II gamma

Omim ID

[602123](#)

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 gamma chain. Six alternatively spliced variants that encode six different isoforms have been characterized to date. Additional alternative splice variants that encode different isoforms have been described, but their full-length nature has not been determined. [provided by RefSeq]

Other Designations

CaM kinase II|OTTHUMP00000019843|OTTHUMP00000019844|calcium/calmodulin-dependent protein kinase (CaM kinase) II gamma

Publication Reference

- [The DNA sequence and comparative analysis of human chromosome 10.](#)

Deloukas P, Earthowl ME, Grafham DV, Rubenfield M, French L, Steward CA, Sims SK, Jones MC, Searle S, Scott C, Howe K, Hunt SE, Andrews TD, Gilbert JG, Swarbreck D, Ashurst JL, Taylor A, Battles J, Bird CP, Ainscough R, Almeida JP, Ashwell RI, Ambrose KD, Babbage AK, Bagguley CL, Bailey J, Banerjee R, Bates K, Beasley H, Bray-Allen S, Brown AJ, Brown JY, Burford DC, Burrill W, Burton J, Cahill P, Camire D, Carter NP, Chapman JC, Clark SY, Clarke G, Clee CM, Clegg S, Corby N, Coulson A, Dhami P,

Nature 2004 May; 429(6990):375.

- [Identification of alternative splicing variants of the beta subunit of human Ca\(2+\)/calmodulin-dependent protein kinase II with different activities.](#)

Wang P, Wu YL, Zhou TH, Sun Y, Pei G.

FEBS Letters 2000 Jun; 475(2):107.

Pathway

- [Calcium signaling pathway](#)
- [Calcium signaling pathway](#)
- [Calcium signaling pathway](#)
- [ErbB signaling pathway](#)
- [ErbB signaling pathway](#)
- [ErbB signaling pathway](#)

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

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Attention Deficit Disorder with Hyperactivity](#)

- [Autistic Disorder](#)
- [Cardiovascular Diseases](#)
- [Cerebral Amyloid Angiopathy](#)
- [Cognition](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [NARP](#)
- [Neuroblastoma](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)