

CAMK2B/CAMK2G/CAMK2D (Human) Cell-Based ELISA Kit

Catalog # KA2629

Size 1 Kit

Specification

Product Description	CAMK2B/CAMK2G/CAMK2D (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of CAMK2B/CAMK2G/CAMK2D expression in cultured cells.
Suitable Sample	Attached Cell, Loosely Attached Cell, Suspension Cell
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Qualitative
Reactivity	Human, Mouse, Rat
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at 4°C.

Applications

- Qualitative

Gene Info — CAMK2B

Entrez GeneID	816
Protein Accession#	Q13554 (Gene ID : 816);Q13555 (Gene ID : 818);Q13557 (Gene ID : 817)
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+)/c almodulin-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
Protein Accession#	Q13554 (Gene ID : 816):Q13555 (Gene ID : 818):Q13557 (Gene ID : 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+)/c almodulin-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
Protein Accession#	Q13554 (Gene ID : 816):Q13555 (Gene ID : 818):Q13557 (Gene ID : 817)

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

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](#)