

CAMK2A/CAMK2D (Human) Cell-Based ELISA Kit

Catalog # KA2628

Size 1 Kit

Specification

Product Description	CAMK2A/CAMK2D (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative determination of CAMK2A/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 — CAMK2A

Entrez GeneID	815
Protein Accession#	Q9UQM7 (Gene ID : 815);Q13557 (Gene ID : 817)
Gene Name	CAMK2A
Gene Alias	CAMKA, KIAA0968
Gene Description	calcium/calmodulin-dependent protein kinase II alpha

Omim ID	114078
Gene Ontology	Hyperlink
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 CaMKIINalpha OTTHUMP00000165787 OTTHUMP00000165788 calcium/calmodulin-dependent protein kinase (CaM kinase) II alpha calcium/calmodulin-dependent protein kinase II alpha-B subunit

Gene Info — CAMK2D

Entrez GeneID	817
Protein Accession#	Q9UQM7 (Gene ID : 815);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+)/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

Pathway

- [Calcium signaling pathway](#)

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

Disease

- [Alcoholism](#)
- [Bipolar Disorder](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Schizophrenia](#)

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