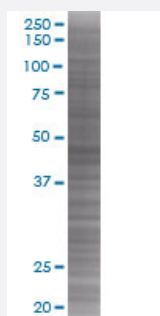


CAMK2A 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00000815-T01

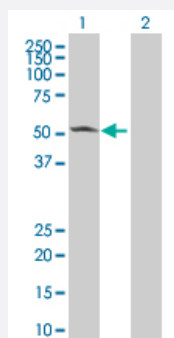
Size 100 uL

Applications



SDS-PAGE Gel

CAMK2A transfected lysate



Western Blot

Lane 1: CAMK2A transfected lysate (52.69 KDa).

Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line 293T

Plasmid pCMV-CAMK2A full-length

Host Human

Theoretical MW (kDa) 52.69

Quality Control Testing Transient overexpression cell lysate was tested with Anti-CAMK2A antibody ([H00000815-B01](#)) by Western Blots.

SDS-PAGE Gel

CAMK2A transfected lysate

Western Blot

Lane 1: CAMK2A transfected lysate (52.69 KDa).

Lane 2: Non-transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — CAMK2A

Entrez GeneID	815
GeneBank Accession#	BC040457
Protein Accession#	AAH40457
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

Pathway

- [Calcium signaling pathway](#)

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

Disease

- [Bipolar Disorder](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)