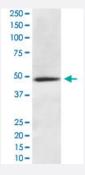


CAMK2A monoclonal antibody, clone AAFF-3

Catalog # MAB19691 Size 100 uL

Applications



Western Blot (Cell lysate)

Western Blot analysis of SH-SY5Y cell lysate with CAMK2A monoclonal antibody, clone AAFF-3 (Cat # MAB19691).

Product Description Rabbit monoclonal antibody raised against synthetic peptide of human CAMK2A. Immunogen A synthetic peptide corresponding to human CAMK2A. Host Rabbit Theoretical MW (kDa) 54.088 Reactivity Human	
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Reactivity Human	
Tidillali	
Form Liquid	
Purification Affinity purification	
Isotype IgG	
Recommend Usage Flow Cytometry (1:100) Immunoprecipitation (1:50) Western Blot (1:1000-1:5000) 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).	



Product Information

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

- Western Blot (Cell lysate)
 - Western Blot analysis of SH-SY5Y cell lysate with CAMK2A monoclonal antibody, clone AAFF-3 (Cat # MAB19691).
- Immunoprecipitation
- Flow Cytometry

Gene Info — CAMK2A		
Entrez GenelD	<u>815</u>	
Protein Accession#	Q9UQM7	
Gene Name	CAMK2A	
Gene Alias	CAMKA, KIAA0968	
Gene Description	calcium/calmodulin-dependent protein kinase II alpha	
Omim ID	114078	
Gene Ontology	<u>Hyperlink</u>	
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 id entified for this gene. [provided by RefSeq	
Other Designations	CaM kinase II alpha subunit CaM-kinase II alpha chain CaMK-II alpha subunit CaMKIINalpha OTT HUMP00000165787 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