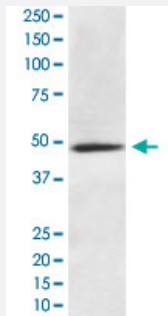


CAMK2A monoclonal antibody, clone AAFF-3

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).

Specification

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

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).

Storage Instruction

Store at -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored 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 should 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 GeneID[815](#)**Protein Accession#**[Q9UQM7](#)**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](#)