

Product datasheet

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ARG66919 anti-CAMKK2 / CaMKK beta antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CAMKK2 / CaMKK beta

Tested Reactivity Hu, Ms
Tested Application WB
Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CAMKK2 / CaMKK beta

Species Human

Immunogen Synthetic peptide within aa. 350-450 of Human CAMKK2 / CaMKK beta.

Conjugation Un-conjugated

Alternate Names Calcium/calmodulin-dependent protein kinase kinase 2; CAMKKB; CaM-KK 2; CaM-kinase kinase 2; EC

2.7.11.17; CaM-KK beta; CAMKK; CaMKK 2; Calcium/calmodulin-dependent protein kinase kinase beta;

CaM-kinase kinase beta; CaMKK beta

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|----------------|
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Observed Size | 65-68 kDa | |

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol and 0.5% BSA

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

CAMKK2

Gene Full Name

calcium/calmodulin-dependent protein kinase kinase 2, beta

Background

The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. The major isoform of this gene plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade by phosphorylating the downstream kinases CaMK1 and CaMK4. Protein products of this gene also phosphorylate AMP-activated protein kinase (AMPK). This gene has its strongest expression in the brain and influences signalling cascades involved with learning and memory, neuronal differentiation and migration, neurite outgrowth, and synapse formation. Alternative splicing results in multiple transcript variants encoding distinct isoforms. The identified isoforms differ in their ability to undergo autophosphorylation and to phosphorylate downstream kinases. [provided by RefSeq, Jul 2012]

Function

Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Isoform 1, isoform 2 and isoform 3 phosphorylate CAMK1 and CAMK4. Isoform 3 phosphorylates CAMK1D. Isoform 4, isoform 5 and isoform 6 lacking part of the calmodulin-binding domain are inactive. Efficiently phosphorylates 5'-AMP-activated protein kinase (AMPK) trimer, including that consisting of PRKAA1, PRKAB1 and PRKAG1. This phosphorylation is stimulated in response to Ca(2+) signals (By similarity). Seems to be involved in hippocampal activation of CREB1 (By similarity). May play a role in neurite growth. Isoform 3 may promote neurite elongation, while isoform 1 may promoter neurite branching. [UniProt]

Calculated Mw

65 kDa

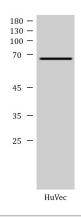
PTM

Autophosphorylated and phosphorylated by PKA. Each isoform may show a different pattern of phosphorylation. [UniProt]

Cellular Localization

Nucleus. Cytoplasm. Cell projection. Note=Predominantly nuclear in unstimulated cells (By similarity). Found in the cytoplasm and neurites after forskolin induction. [UniProt]

Images



ARG66919 anti-CAMKK2 / CaMKK beta antibody WB image

Western blot: HuVec cell lysates stained with ARG66919 anti-CAMKK2 / CaMKK beta antibody.