

Anti-CaMKK Antibody

Catalog # ABO10839

Product Information

Application	WB, IHC-P
Primary Accession	Q8VBY2
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Calcium/calmodulin-dependent protein kinase kinase 1(CAMKK1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	55984
Other Names	Calcium/calmodulin-dependent protein kinase kinase 1, CaM-KK 1, CaM-kinase kinase 1, CaMKK 1, 2.7.11.17, CaM-kinase IV kinase, Calcium/calmodulin-dependent protein kinase kinase alpha, CaM-KK alpha, CaM-kinase kinase alpha, CaMKK alpha, Camkk1, Camkk
Calculated MW	55838
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Rat, Mouse, By Heat Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat
Subcellular Localization	Cytoplasm . Nucleus .
Tissue Specificity	Widely expressed. Differentially expressed in various brain regions. .
Source	Eukaryota
Protein Name	Calcium/calmodulin-dependent protein kinase kinase 1(CaM-KK 1/CaM-kinase kinase 1/CaMKK 1)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse CaMKK(10-31aa QDPRAELVDRVAAINVAHLEEA), different from the related human sequence by three amino acids, and from the related rat sequence by two amino acids.

Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	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.
Sequence Similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.

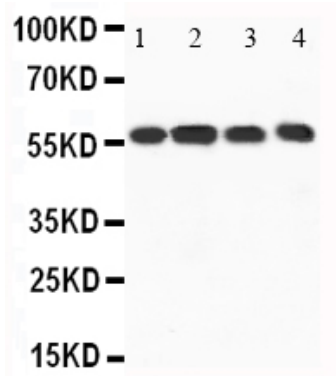
Protein Information

Name	Camkk1
Synonyms	Camkk
Function	Calcium/calmodulin-dependent protein kinase that belongs to a proposed calcium-triggered signaling cascade involved in a number of cellular processes. Phosphorylates CAMK1, CAMK1D, CAMK1G and CAMK4. Involved in regulating cell apoptosis. Promotes cell survival by phosphorylating AKT1/PKB that inhibits pro-apoptotic BAD/Bcl2- antagonist of cell death.
Cellular Location	Cytoplasm. Nucleus.
Tissue Location	Widely expressed. Differentially expressed in various brain regions.

Background

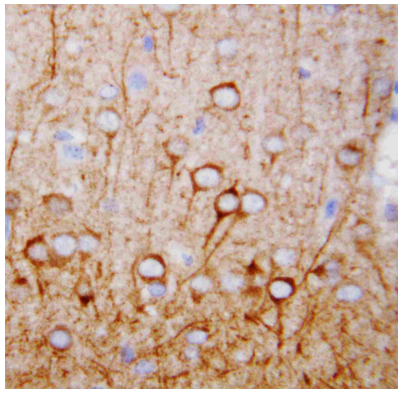
CAMKK1, Calcium/calmodulin-dependent protein kinase kinase 1 is an enzyme that in humans is encoded by the CAMKK1 gene. The CAMKK1 gene is mapped to chromosome 17. The product of this gene belongs to the Serine/Threonine protein kinase family, and to the Ca(2+)/calmodulin-dependent protein kinase subfamily. This protein plays a role in the calcium/calmodulin-dependent (CaM) kinase cascade. Three transcript variants encoding two distinct isoforms have been identified for this gene. Camkk1 binds calmodulin and activated Camk4 with a 6-fold increase in total activity and a 100-fold increase in Camk4 Ca(2+)-independent activity. Camkk1 catalyzed a 10-fold increase in the total activity of Camk1 and had no effect on Camk2. Cotransfection of COS-7 cells with Camkk1 and Camk4 resulted in a 14-fold increase in CRE-binding protein-dependent transcription compared with Camk4 alone, suggesting that Camkk1 enhances Camk4-mediated transcriptional regulation.

Images



Anti-CaMKK antibody, ABO10839, Western blotting
Lane 1: Rat Brain Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Mouse Brain Tissue Lysate
Lane 4: Mouse Brain Tissue Lysate

Anti-CaMKK antibody, ABO10839, IHC(P)
IHC(P): Rat Brain Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.