

Datasheet for ABIN3044431
anti-CAMKK1 antibody (N-Term)

3 Images

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Overview

Quantity:	100 µg
Target:	CAMKK1
Binding Specificity:	AA 10-31, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CAMKK1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Calcium/calmodulin-dependent protein kinase kinase 1(CAMKK1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
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.
Sequence:	QDPRAELVDR VAAINVAHLE EA
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Calcium/calmodulin-dependent protein kinase kinase 1(CAMKK1) detection. Tested with WB, IHC-P in Human,Mouse,Rat. Gene Name: calcium/calmodulin-dependent protein kinase kinase 1, alpha

Product Details

Protein Name: Calcium/calmodulin-dependent protein kinase kinase 1(CaM-KK 1/CaM-kinase kinase 1/CaMKK 1)

Purification: Immunogen affinity purified.

Target Details

Target: CAMKK1

Alternative Name: CAMKK1 ([CAMKK1 Products](#))

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.

Synonyms: Ca2+/calmodulin-dependent protein kinase kinase alpha antibody|Calcium/calmodulin dependent protein kinase kinase antibody|Calcium/calmodulin dependent protein kinase kinase 1 alpha antibody|Calcium/calmodulin dependent protein kinase kinase 1 antibody|Calcium/calmodulin dependent protein kinase kinase alpha antibody|Calcium/calmodulin-dependent protein kinase kinase 1 antibody|Calcium/calmodulin-dependent protein kinase kinase alpha antibody|CaM kinase kinase alpha antibody|CaM-kinase IV kinase antibody|CaM-kinase kinase 1 antibody|CaM-kinase kinase alpha antibody|CaM-KK 1 antibody|CaM-KK alpha antibody|CaMKK 1 antibody|CaMKK alpha antibody|CAMKK alpha protein antibody|CaMKK antibody|CAMKK1 antibody|CAMKKA antibody|DKFZp761M0423 antibody|KKCC1_HUMAN antibody|IMGC34095 antibody|OTTMUSP00000006419 antibody

Pathways: [AMPK Signaling](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat

Application Details

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.

Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

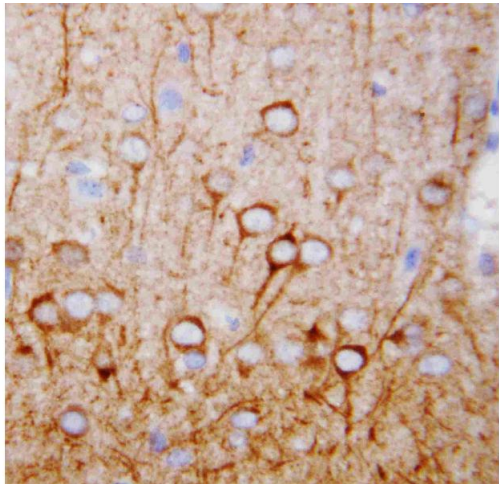
Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

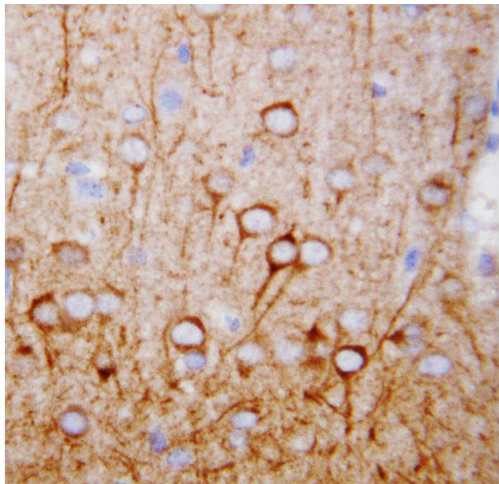
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months



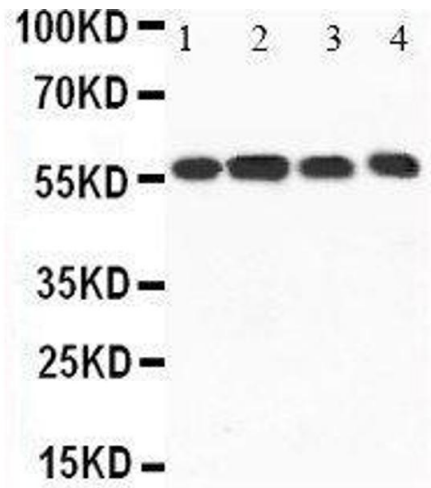
Immunohistochemistry

Image 1. Anti-CaMKK antibody, IHC(P): Rat Brain Tissue



Immunohistochemistry

Image 2. Anti-CaMKK antibody, IHC(P) IHC(P): Rat Brain Tissue



Western Blotting

Image 3. Anti-CaMKK antibody, 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