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CaMKK1 Rabbit pAb

Catalog # AP99744

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8N5S9
Other Accession	Q8N5S9
Reactivity	Rat
Predicted	Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	55735
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CaMKK1
Epitope Specificity	101-200/505
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 protein kinase domain.
SUBUNIT	Interacts with CAMK4 and calmodulin (By similarity).
Post-translational modifications	Appears to be autophosphorylated in a Ca(2+)/calmodulin-dependent manner. Phosphorylated at multiple sites by PRCAKA/PKA. Phosphorylation of Ser-458 is blocked upon binding to Ca(2+)/calmodulin. In vitro, phosphorylated by CAMK1 and CAMK4 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. [provided by RefSeq, Jul 2008].

Additional Information

Gene ID	84254
Other Names	CAMKKA; CaMKKalpha; Camkk; caM-KK 1; caM-KK alpha; caMKK 1; caMKK alpha; KKCC1_HUMAN; CAMKK1; CaM-kinase kinase 1; CaM-kinase IV kinase; Calcium/calmodulin-dependent protein kinase kinase alpha (CaM-KK alpha | CaM-kinase kinase alpha | CaMKK alpha); 2.7.11.17; KKCC1_MOUSE; calcium/calmodulin dependent protein kinase kinase 1; calcium/calmodulin-dependent protein kinase kinase 1, alpha; calcium/calmodulin-dependent protein kinase kinase alpha
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CAMKK1
Synonyms	CAMKKA
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.

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