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Rabbit Anti-PNCK antibody

SL12134R

Product Name	PNCK
Chinese Name	钙/钙调素依赖蛋白激酶 1β/CaMKIβ 抗体
Alias	Calcium/calmodulin dependent protein kinase type 1B; Calcium/calmodulin-dependent protein kinase type 1B; CaM KI beta; CaM kinase I beta; CaM kinase IB; CaM-KI beta; CaMK1b; CaMKI beta; CaMKI-beta; EC 2.7.11.17; KCC1B_HUMAN; MGC45419; PNCK; Pregnancy up regulated non ubiquitously expressed CaM kinase; Pregnancy up-regulated non-ubiquitously-expressed CaM kinase.
Research Area	Cell biology Neurobiology Signal transduction Kinases and Phosphatases
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Pig, Cow, Sheep,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	38kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PNCK: 31-160/343
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or

diagnostic applications.

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The Ca2+/calmodulin-dependent protein kinases (CaMKs) comprise a structurally related subfamily of serine/threonine kinases. CaMKI Beta (Ca2+/calmodulin-dependent protein kinase type 1B), also known as PNCK (pregnancy up-regulated non-ubiquitously expressed CaM kinase) or BSTK3, is a 343 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one protein kinase domain. Existing as multiple alternatively spliced isoforms, CaMKI Beta functions to catalyze the ATP-dependent phosphorylation of CaMKI, an event that activates CaMKI activity and may be important for Ca2+-triggered signaling cascades within the cell. The gene encoding CaMKI Beta maps to human chromosome X, which contains nearly 153 million base pairs and houses over 1,000 genes.

Product Detail

Function:
Calcium/calmodulin-dependent protein kinase belonging to a proposed calcium-triggered signaling cascade. In vitro phosphorylates CREB1 and SYN1/synapsin I. Phosphorylates and activates CAMK1.

Subcellular Location:
Cytoplasm. Nucleus.

Post-translational modifications:
Phosphorylated by CAMKK1.

Similarity:
Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily.
Contains 1 protein kinase domain.

SWISS:
Q6P2M8

Gene ID:
139728

Database links:

Entrez Gene: 139728 Human

Entrez Gene: 93843 Mouse

Entrez Gene: 100360379 Rat

Entrez Gene: 29660 Rat

Omim: 300680 Human

SwissProt: Q6P2M8 Human

SwissProt: Q9QYK9 Mouse

SwissProt: O70150 Rat

Unigene: 436667 Human

Unigene: 89564 Mouse

Unigene: 11178 Rat