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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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	38kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PNCK:31-160/343
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

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: 139728Human

Entrez Gene: 93843Mouse

Entrez Gene: 100360379Rat

Entrez Gene: 29660Rat

Omim: 300680Human

SwissProt: Q6P2M8Human

SwissProt: Q9QYK9Mouse

SwissProt: O70150Rat

Unigene: 436667Human

	Unigene: 89564Mouse Unigene: 11178Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.