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PCTK1 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP11314a

Specification

PCTK1 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q00536

PCTK1 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 5127

Other Names
Cyclin-dependent kinase 16, Cell division protein kinase 16, PCTAIRE-motif protein kinase 1, Serine/threonine-protein kinase PCTAIRE-1, CDK16, PCTAIRE1, PCTK1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PCTK1 Antibody (N-term) Blocking peptide - Protein Information

Name CDK16

Synonyms PCTAIRE1, PCTK1

Function
Protein kinase that plays a role in vesicle-mediated transport processes and exocytosis. Regulates GH1 release by brain neurons. Phosphorylates NSF, and thereby regulates NSF oligomerization. Required for normal spermatogenesis. Regulates neuron differentiation and dendrite development (By similarity). Plays a role in the regulation of insulin secretion in response to changes in blood glucose levels. Can phosphorylate CCNY at 'Ser-336' (in vitro).

Cellular Location
Cytoplasm. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:Q63686} Cell membrane; Peripheral membrane protein; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:Q63686}. Note=Colocalizes with insulin in pancreas islets. Recruited to the cell membrane by CCNY

Tissue Location
Detected in pancreas islets (at protein level). Detected in brain and pancreas.

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PCTK1 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PCTK1 Antibody (N-term) Blocking peptide - Images

PCTK1 Antibody (N-term) Blocking peptide - Background

The protein encoded by this gene belongs to the cdc2/cdkxsubfamily of the ser/thr family of protein kinases. It may play arole in signal transduction cascades in terminally differentiatedcells; in exocytosis; and in transport of secretory cargo from theendoplasmic reticulum. This gene is thought to escape Xinactivation. Alternative splicing results in multiple transcriptvariants encoding different isoforms.

PCTK1 Antibody (N-term) Blocking peptide - References

Malumbres, M., et al. Nat. Cell Biol. 11(11):1275-1276(2009)Liu, Y., et al. J. Biol. Chem. 281(15):9852-9858(2006)Palmer, K.J., et al. J. Cell. Sci. 118 (PT 17), 3839-3847 (2005) :Graeser, R., et al. J. Cell. Sci. 115 (PT 17), 3479-3490 (2002) :Esposito, T., et al. Genomics 43(2):183-190(1997)