

**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.

### **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/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants 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)