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PCTAIRE1 (PCTK1) Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP7547b

Specification

PCTAIRE1 (PCTK1) Antibody (C-term) Blocking peptide - Product Information

Primary Accession	Q00536
Other Accession	NP_148978

PCTAIRE1 (PCTK1) Antibody (C-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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7547b was selected from the C-term region of human PCTK1 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

PCTAIRE1 (PCTK1) Antibody (C-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. Cell membrane; Peripheral membrane protein;

Cytoplasmic side Synapse, synaptosome. 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.

PCTAIRE1 (PCTK1) Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

PCTAIRE1 (PCTK1) Antibody (C-term) Blocking peptide - Images

PCTAIRE1 (PCTK1) Antibody (C-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. This gene is thought to escape X inactivation. Two transcript variants encoding the same protein have been found for this gene.

PCTAIRE1 (PCTK1) Antibody (C-term) Blocking peptide - References

Besset, V., et al., Cell Growth Differ. 10(3):173-181 (1999).Esposito, T., et al., Genomics 43(2):183-190 (1997).Carrel, L., et al., Hum. Mol. Genet. 5(3):391-401 (1996).Knight, J.C., et al., Cytogenet. Cell Genet. 71(2):155-157 (1995).Okuda, T., et al., Genomics 21(1):217-221 (1994).