

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP7549a**Specification**

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Product InformationPrimary Accession
Other Accession[Q07002](#)
[NP_002587](#)**PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 5129**Other Names**

Cyclin-dependent kinase 18, Cell division protein kinase 18, PCTAIRE-motif protein kinase 3, Serine/threonine-protein kinase PCTAIRE-3, CDK18, PCTAIRE3, PCTK3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7549a](/product/products/AP7549a) was selected from the N-term region of human PCTK3 . 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.

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Protein Information**Name** CDK18**Synonyms** PCTAIRE3, PCTK3**Function**

May play a role in signal transduction cascades in terminally differentiated cells.

Tissue Location

Isoform 2 expression is limited to several subcortical nuclei of the basal gangli and the spinal cord. Isoform 1 is widely expressed.

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Images**PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - Background**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The STE group (homologs of yeast Sterile 7, 11, 20 kinases) consists of 50 kinases related to the mitogen-activated protein kinase (MAPK) cascade families (Ste7/MAP2K, Ste11/MAP3K, and Ste20/MAP4K). MAP kinase cascades, consisting of a MAPK and one or more upstream regulatory kinases (MAPKKs) have been best characterized in the yeast pheromone response pathway. Pheromones bind to Ste cell surface receptors and activate yeast MAPK pathway. The CMGC group consists of 60 kinases including the cyclin-dependent kinase (CDK) and close relatives family, the MAP kinase (ERK) family, the glycogen synthase kinase 3 (GSK3) family, and the Cdc2-like kinase (CLK) family.

PCTAIRE3 (PCTK3) Antibody (N-term) Blocking peptide - References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002). Meyerson, M., et al., EMBO J. 11(8):2909-2917 (1992).