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Mouse Cdk16 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13909a

Specification

Mouse Cdk16 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q04735

Mouse Cdk16 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 18555

Other Names
Cyclin-dependent kinase 16, CRK5, Cell division protein kinase 16, PCTAIRE-motif protein kinase 1, Serine/threonine-protein kinase PCTAIRE-1, Cdk16, Crk5, Pctaire1, Pctk1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13909a was selected from the N-term region of Mouse Cdk16. 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.

Mouse Cdk16 Antibody (N-term) Blocking peptide - Protein Information

Name Cdk16

Synonyms Crk5, Pctaire1, Pctk1

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

Cellular Location
Cytoplasm. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:Q63686} Cell membrane; Peripheral membrane protein {ECO:0000250|UniProtKB:Q00536}; Cytoplasmic side {ECO:0000250|UniProtKB:Q00536}. Synapse, synaptosome {ECO:0000250|UniProtKB:Q63686}.

Note=Colocalizes with insulin in pancreas islets. Recruited to the cell membrane by CCNY {ECO:0000250|UniProtKB:Q00536}

Tissue Location
Highly expressed in testis and brain, and detected at lower levels in heart, skeletal muscle, adipose tissue, lung, spleen and pancreas (at protein level). Ubiquitous with highest levels in testis and brain, with longer form predominant in all tissues except the testis.

Mouse Cdk16 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

Mouse Cdk16 Antibody (N-term) Blocking peptide - Images

Mouse Cdk16 Antibody (N-term) Blocking peptide - Background

Cdk16 may play a role in signal transduction cascades in terminally differentiated cells.

Mouse Cdk16 Antibody (N-term) Blocking peptide - References

Mokalled, M.H., et al. Development 137(14):2365-2374(2010)Savarese, F., et al. Mol. Cell. Biol. 26(19):7167-7177(2006)Nolen, L.D., et al. Dev. Biol. 279(2):525-540(2005)Cheng, K., et al. J. Biol. Chem. 277(35):31988-31993(2002)Besset, V., et al. Cell Growth Differ. 10(3):173-181(1999)