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Mouse Prkx Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP14084a

Specification

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

Primary Accession Q922R0

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

Gene ID 19108

Other Names
cAMP-dependent protein kinase catalytic subunit PRKX, PrKX, Protein kinase X, Protein kinase X-linked, Serine/threonine-protein kinase PRKX, PKA-related protein kinase, Prkx, Pkare

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP14084a was selected from the N-term region of Mouse Prkx. 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 Prkx Antibody (N-term) Blocking peptide - Protein Information

Name Prkx

Synonyms Pkare

Function
Serine/threonine protein kinase regulated by and mediating cAMP signaling in cells. Acts through phosphorylation of downstream targets that may include CREB, SMAD6 and PKD1 and has multiple functions in cellular differentiation and epithelial morphogenesis. Regulates myeloid cell differentiation through SMAD6 phosphorylation. Involved in nephrogenesis by stimulating renal epithelial cell migration and tubulogenesis. Also involved in angiogenesis through stimulation of endothelial cell proliferation, migration and vascular- like structure formation.

Cellular Location
Cytoplasm. Nucleus. Note=cAMP induces nuclear translocation.

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Tissue Location
Widely expressed..

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

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

- Blocking Peptides

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

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

Protein Kinase PKX1 belongs to the AGC Ser/Thr protein kinase family, cAMP subfamily. It contains one AGC-kinase C-terminal domain and one protein kinase domain. It is expressed at high levels in adult and fetal brain, kidney and lung and at low levels in adult placenta, heart, liver, skeletal muscle, pancreas and fetal liver.

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

Li, X., et al. Biochim. Biophys. Acta 1782(1):1-9(2008)Li, W., et al. J. Histochem. Cytochem. 53(8):1003-1009(2005)Blaschke, R.J., et al. Genomics 64(2):187-194(2000)Blaschke, R.J., et al. Genome Res. 7(12):1114-1117(1997)