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Mouse Pak7 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP14074a

Specification

Mouse Pak7 Antibody (N-term) Blocking peptide - Product Information

Primary Accession Q8C015

Mouse Pak7 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 241656

Other Names
Serine/threonine-protein kinase PAK 7, p21-activated kinase 5, PAK-5, p21-activated kinase 7, PAK-7, Pak7, Pak5

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP14074a was selected from the N-term region of Mouse Pak7. 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 Pak7 Antibody (N-term) Blocking peptide - Protein Information

Name Pak5 {ECO:0000303|PubMed:11756552}

Function
Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates the proto-oncogene RAF1 and stimulates its kinase activity. Promotes cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Phosphorylates CTNND1, probably to regulate cytoskeletal organization and cell morphology. Keeps microtubules stable through MARK2 inhibition and destabilizes the F-actin network leading to the disappearance of stress fibers and focal adhesions (By similarity).

Cellular Location
Mitochondrion. Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the mitochondria,

and mitochondrial localization is essential for the role in cell survival.

Tissue Location
Highly expressed in brain and eye. Also expressed in adrenal gland, pancreas, prostate and testes. Within the brain, expression is restricted to neurons. Present in brain but not in kidney, lung and spleen (at protein level)

Mouse Pak7 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

Mouse Pak7 Antibody (N-term) Blocking peptide - Images

Mouse Pak7 Antibody (N-term) Blocking peptide - Background

The activated kinase acts on a variety of targets (By similarity).

Mouse Pak7 Antibody (N-term) Blocking peptide - References

Gobert, R.P., et al. Mol. Cell. Biol. 29(6):1538-1553(2009)Nekrasova, T., et al. Dev. Biol. 322(1):95-108(2008)Pagliarini, D.J., et al. Cell 134(1):112-123(2008)Sapir, T., et al. J. Neurosci. 28(22):5710-5720(2008)Trinidad, J.C., et al. Mol. Cell Proteomics 5(5):914-922(2006)