

PAK6 Antibody Blocking Peptide
Synthetic peptide
Catalog # BP7931a**Specification**

PAK6 Antibody Blocking Peptide - Product Information

Primary Accession [O9NQUS](#)
Other Accession [NP_064553](#)

PAK6 Antibody Blocking Peptide - Additional Information

Gene ID 106821730;56924

Other Names

Serine/threonine-protein kinase PAK 6, PAK-5, p21-activated kinase 6, PAK-6, PAK6, PAK5

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7931a](/product/products/AP7931a) was selected from the region of human PAK6. 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.

PAK6 Antibody Blocking Peptide - Protein Information

Name PAK6

Synonyms PAK5

Function

Serine/threonine protein kinase that plays a role in the regulation of gene transcription. The kinase activity is induced by various effectors including AR or MAP2K6/MAPKK6. Phosphorylates the DNA-binding domain of androgen receptor/AR and thereby inhibits AR- mediated transcription. Inhibits also ESR1-mediated transcription. May play a role in cytoskeleton regulation by interacting with IQGAP1. May protect cells from apoptosis through phosphorylation of BAD.

Cellular Location

Cytoplasm. Nucleus. Note=Cotranslocates into nucleus with AR in response to androgen induction

Tissue Location

Selectively expressed in brain and testis, with lower levels in multiple tissues including prostate and breast

PAK6 Antibody Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PAK6 Antibody Blocking Peptide - Images**PAK6 Antibody Blocking Peptide - Background**

The PAK6 protein shares a high degree of sequence similarity with p21-activated kinase (PAK) family members. The proteins of this family are Rac/Cdc42-associated Ste20-like Ser/Thr protein kinases, characterized by a highly conserved amino-terminal Cdc42/Rac interactive binding (CRIB) domain and a carboxyl-terminal kinase domain. PAK kinases are implicated in the regulation of a number of cellular processes, including cytoskeleton rearrangement, apoptosis and the MAP kinase signaling pathway. PAK6 was found to interact with androgen receptor (AR), which is a steroid hormone-dependent transcription factor that is important for male sexual differentiation and development. The p21-activated protein kinase 6 gene was found to be highly expressed in testis and prostate tissues and the encoded protein was shown to cotranslocate into the nucleus with AR in response to androgen.

PAK6 Antibody Blocking Peptide - References

Ching, Y.P., et al., J. Biol. Chem. 278(36):33621-33624 (2003). Pandey, A., et al., Oncogene 21(24):3939-3948 (2002). Yang, F., et al., J. Biol. Chem. 276(18):15345-15353 (2001).