

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

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**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).