

**Anti-PAK6 (Ser-165), Phosphospecific Antibody**  
**Catalog # AN1884****Specification****Anti-PAK6 (Ser-165), Phosphospecific Antibody - Product Information**

Primary Accession	<a href="#">O9NQJ5</a>
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	74869

**Anti-PAK6 (Ser-165), Phosphospecific Antibody - Additional Information**

Gene ID	106821730;56924
<b>Other Names</b>	
p21, PAK	

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Anti-PAK6 (Ser-165), Phosphospecific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

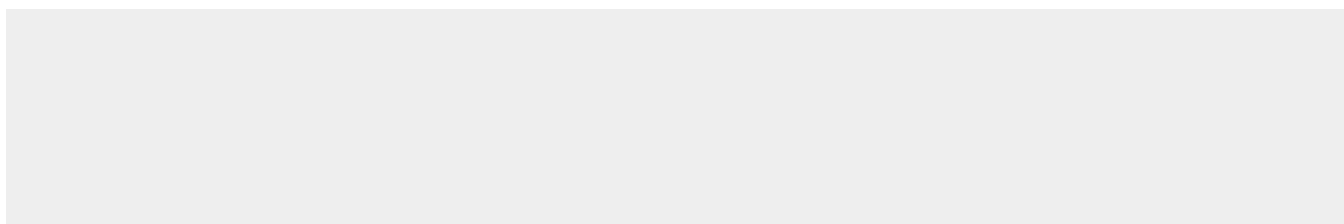
**Shipping**

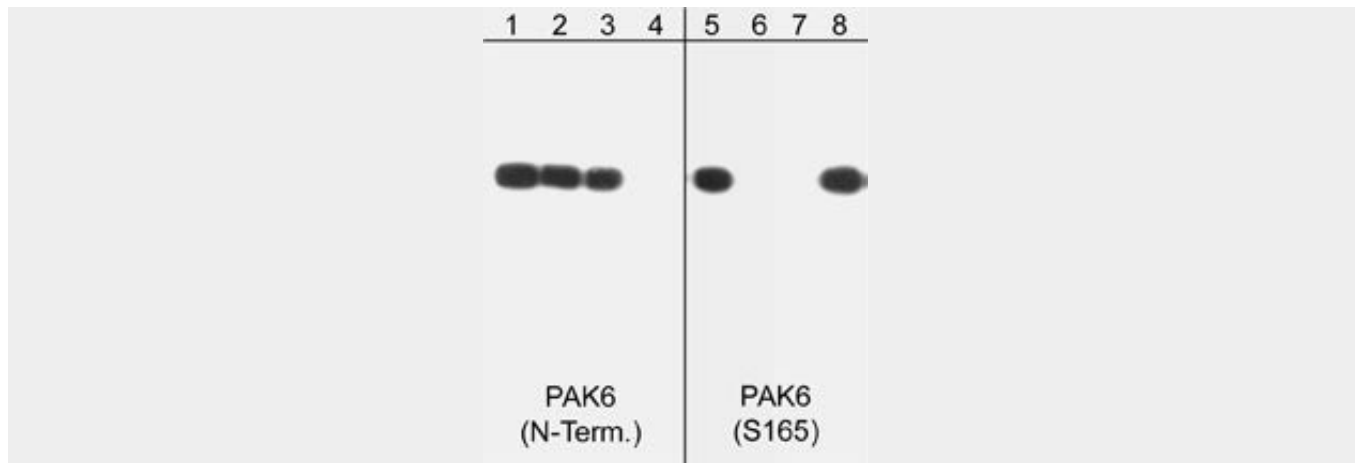
Blue Ice

**Anti-PAK6 (Ser-165), Phosphospecific Antibody - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Anti-PAK6 (Ser-165), Phosphospecific Antibody - Images**



Western blots of human PAK6 recombinant protein phosphorylated by ERK2. The blot was exposed to lambda phosphatase (lanes 2 & 6) then probed with anti-PAK6 (N-terminal) (lanes 1-4) or anti-PAK6 (Ser-165) phospho-specific (lanes 5-8). The antibodies were used in the presence of unrelated (lane 3) and PAK6 (N-terminal) (lane 4) peptide or PAK6 (Ser-165) (lane 7) and unrelated phospho-serine (lane 8) peptides, respectively.

#### **Anti-PAK6 (Ser-165), Phosphospecific Antibody - Background**

p21-activated kinase 6 (PAK6) is a member of the PAK family of serine/threonine kinases. These kinases have a highly conserved amino-terminal Cdc42/Rac interactive binding 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 interacts with the androgen receptor, a steroid hormone transcription factor involved in male sexual differentiation and development. PAK6 is highly expressed in testis and prostate tissues. Regulation of PAK6 kinase activity occurs through multiple sites of phosphorylation. Activation of PAK6 requires autophosphorylation of Ser-560 and MKK-6 induced phosphorylation of Tyr-566. In addition, p38 MAPK can phosphorylate Ser-165, which increases PAK6 kinase activity. Thus, multiple signaling pathways may regulate the activity of PAK6 through differential phosphorylation.