

phospho-PAK6 (Ser-165) Blocking Peptide

Cat. # **PX1555**

Size **50 µg**

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.

References:

Kaur, R. et al. (2005) J. Biol. Chem. 280(5) :3323.
Schrantz, N. et al. (2004) J. Biol. Chem. 279(3):1922.
Lee, S.R. et al. (2002) Mol. Endocrin. 16(1):85.

Peptide Sequence:

PAK6 (Ser-165) synthetic peptide corresponds to amino acids around serine 165 of human PAK6. The sequence used has two amino acid differences compared to rat and mouse PAK6.

Buffer and Storage:

Blocking Peptide is supplied in 50µl phosphate-buffered saline and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications:

Antibody Blocking 1 µg/ml¹
ELISA 10-100 ng/well²

End user should determine optimal concentration dependent on the concentration of the antibody.

¹Recommended for blocking antibody reactivity in Western blot and immunocytochemistry.

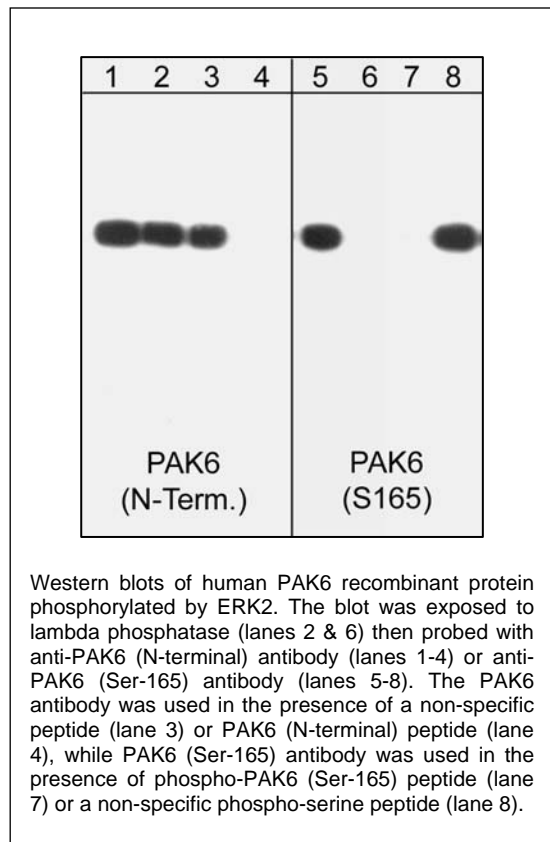
²Established in 96-well Nunc immunoplates where peptide was bound to plates for 2 hrs in 0.1 M sodium carbonate buffer, pH 8.5.

Specificity:

The peptide is specifically recognized by anti-PAK6 (Ser-165) phospho-specific antibody (PP1551) in ELISA, and has been shown to block the reactivity of PP1551 during Western blot. In addition, the peptide is recommended for use in blocking PP1551 reactivity in immunocytochemistry.

Related Products:

PP1511 PAK6 (N-terminal region) Rabbit Polyclonal
PP1551 PAK6 (Ser-165), phospho-specific Rabbit Polyclonal
PX1515 PAK6 (N-terminal region) Peptide



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