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[Marker Primary Antibody]

Rabbit Anti-phospho-PAK6 (Ser165)/HRP Conjugated antibody

Catalog Number: SL5556R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-phospho-PAK6(Ser165)/HRP
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PAK6 around the phosphorylation site of Ser165
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat)
Background:	background: This gene encodes a protein that 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. The protein encoded by this gene 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. **Function:** Serine/threonine protein kinase that plays a role in the regulation of

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	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. **Subunit:** Interacts tightly with GTP-bound but not GDP-bound CDC42/p21 and RAC1. Interacts with the androgen receptor AR and the estrogen receptor ESR1. Interacts with IQGAP1 and PPM1B. **Subcellular Location:** Cytoplasm. Nucleus. Note=Cotranslocates into nucleus with AR in response to androgen induction. **Tissue Specificity:** Selectively expressed in brain and testis, with lower levels in multiple tissues including prostate and breast. **Post-translational modifications:** Autophosphorylated. Phosphorylated by MAP2K6//MAPKK6, leading to PAK6 activation. **Similarity:** Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 56924 Human Omim: 608110 Human **SwissProt:** Q9NQU5 Human **Unigene:** 513645 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.