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Rabbit Anti-phospho-PAK6 (Ser165) antibody

SL5556R

Product Name:	phospho-PAK6 (Ser165)
Chinese Name:	磷酸化P21蛋白激活的蛋白激酶6
Alias:	PAK6 (phospho Ser165); p-PAK6 (phospho S165); PAK6(phospho S165); CDKN1A activated kinase 6; p21 activated protein kinase 6; p21 protein (Cdc42/Rac)-activated kinase 6; p21(CDKN1A) activated kinase 6; p21-ACTIVATED KINASE 6; p21activated kinase 6; PAK 5; PAK 6; PAK5; Serine threonine protein kinase PAK 6; Serine/threonine protein kinase PAK 6; Serine/threonine protein kinase PAK6.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	75kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PAK6 around the phosphorylation site of Ser165:PQ(p-S)P
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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.

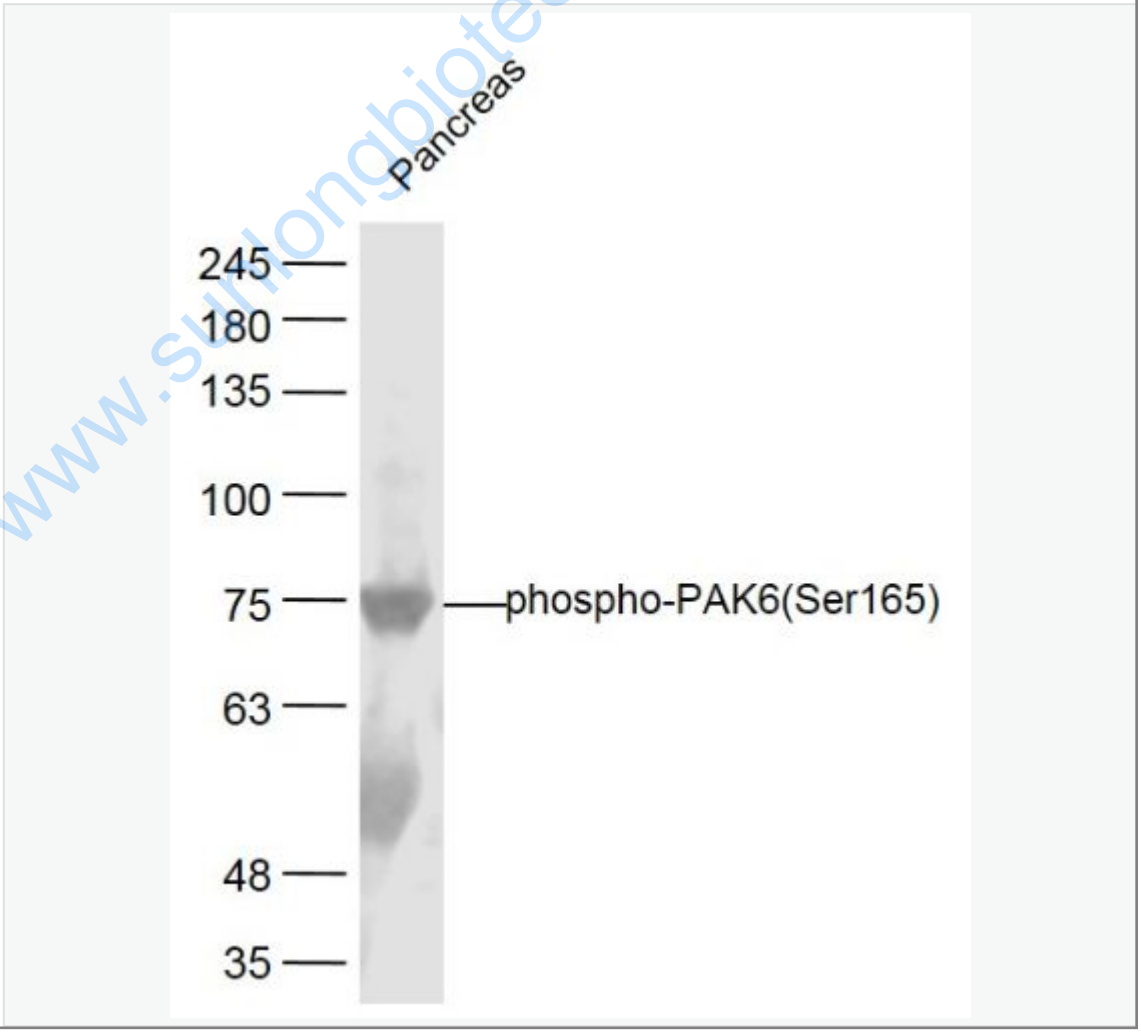
Subcellular Location:
Cytoplasm. Nucleus. Note=Cotranslocates into nucleus with AR in response to androgen induction.

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.

SWISS:
Q9NQU5

	Gene ID: 56924 **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.
Picture:	

Sample:

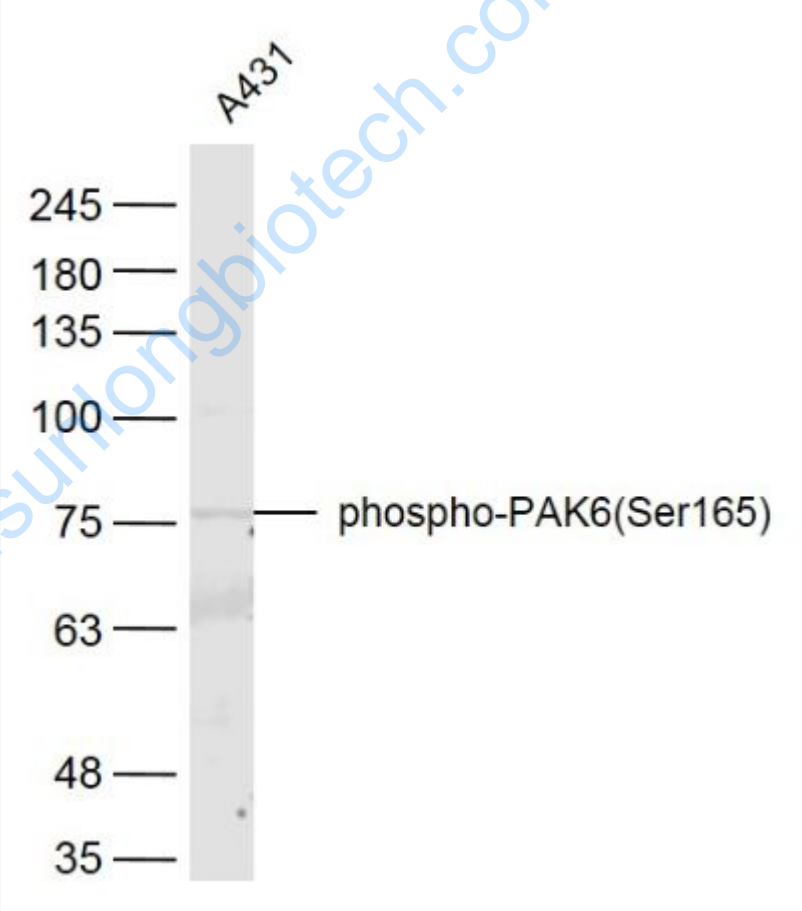
Pancreas (Mouse) Lysate at 40 ug

Primary: Anti-phospho-PAK6(Ser165) (SL5556R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 75kD

Observed band size: 75 kD



Sample:

A431(Human) Cell Lysate at 40 ug

Primary: Anti-phospho-PAK6(Ser165) (SL5556R) at 1/300 dilution

	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75kD Observed band size: 75 kD