

产品名称: PAK $\alpha$ / $\beta$ / $\gamma$  (phospho Ser144/141/139) Rabbit Polyclonal Antibody  
产品货号: APRab05205



## 产品概述 (Summary)

|                        |                                                                                       |
|------------------------|---------------------------------------------------------------------------------------|
| 产品名称 (Production Name) | PAK $\alpha$ / $\beta$ / $\gamma$ (phospho Ser144/141/139) Rabbit Polyclonal Antibody |
| 描述 (Description)       | Rabbit polyclonal Antibody                                                            |
| 宿主 (Host)              | Rabbit                                                                                |
| 应用 (Application)       | WB,IHC,ICC/IF,ELISA                                                                   |
| 种属反应性 (Reactivity)     | Human,Mouse,Rat                                                                       |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Phosphorylated                                                                                    |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Polyclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                                                                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 基因名 (Gene Name)        | PAK1/PAK2/PAK3                                                                                                                                                                                                                                   |
| 别名 (Alternative Names) | PAK1; Serine/threonine-protein kinase PAK 1; Alpha-PAK; p21-activated kinase 1; PAK-1; p65-PAK; PAK2; Serine/threonine-protein kinase PAK 2; Gamma-PAK; PAK65; S6/H4 kinase; p21-activated kinase 2; PAK-2; p58; PAK3; OPHN3; Serine/threonine-p |
| 基因 ID (Gene ID)        | 5058/5062/5063                                                                                                                                                                                                                                   |
| 蛋白 ID (SwissProt ID)   | Q13153/Q13177/O75914.The antiserum was produced against synthesized peptide derived from human PAK1/2/3 around the phosphorylation site of Ser144/141/139. AA range:111-160                                                                      |

## 产品应用 (Application)

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**稀释比 (Dilution Ratio)**

WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:5000-1:20000

**蛋白分子量 (Molecular Weight)**

65kDa

## 研究背景 (Background)

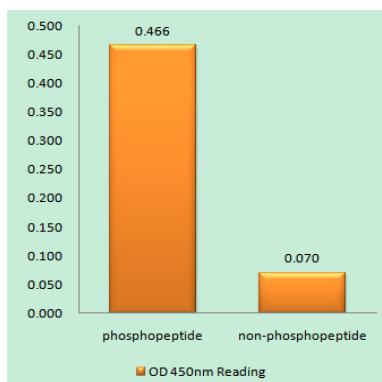
This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,enzyme regulation:Activated by binding small G proteins. Binding of GTP-bound CDC42 or RAC1 to the autoregulatory region releases monomers from the autoinhibited dimer, enables phosphorylation of Thr-423 and allows the kinase domain to adopt an active structure. Also activated by binding to GTP-bound CDC42, independent of the phosphorylation state of Thr-423. Phosphorylation of Thr-84 by OXSR1 inhibits this activation.,function:The activated kinase acts on a variety of targets. Likely to be the GTPase effector that links the Rho-related GTPases to the JNK MAP kinase pathway. Activated by CDC42 and RAC1. Involved in dissolution of stress fibers and reorganization of focal complexes. Involved in regulation of microtubule biogenesis through phosphorylation of TBCB. Activity is inhibited in cells undergoing apoptosis, potentially due to binding of CDC2L1 and CDC2L2.,PTM:Autophosphorylated when activated by CDC42/p21 and RAC1.,similarity:Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.,similarity:Contains 1 CRIB domain.,similarity:Contains 1 protein kinase domain.,subcellular location:Recruited to focal adhesions upon activation.,subunit:Homodimer in its autoinhibited state. Active as monomer. Interacts tightly with GTP-bound but not GDP-bound CDC42/P21 and RAC1. Binds to the caspase-cleaved p110 isoform of CDC2L1 and CDC2L2, p110C, but not the full-length proteins. Component of cytoplasmic complexes, which also contain PXN, ARHGEF6 and GIT1. Interacts with ARHGEF7. Also interacts with CRIPAK. Interacts with NISCH.,

## 研究领域 (Research Area)

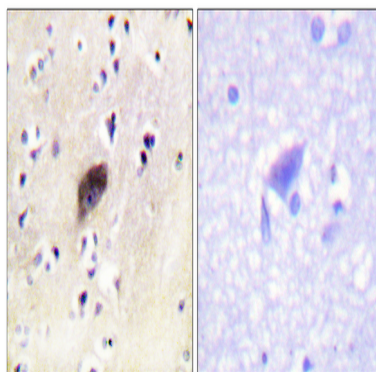
MAPK\_ERK\_Growth;MAPK\_G\_Protein;ErbB\_HER;Chemokine;Axon guidance;Focal adhesion;Natural killer cell mediated cytotoxicity;T\_Cell\_Receptor;Fc gamma R-mediated phagocytosis;Regulates Actin and Cytoskeleton;Epithelial cell signaling in Helicobacter pylori infection;Renal cell carcinoma;

## 图片 (Image Data)

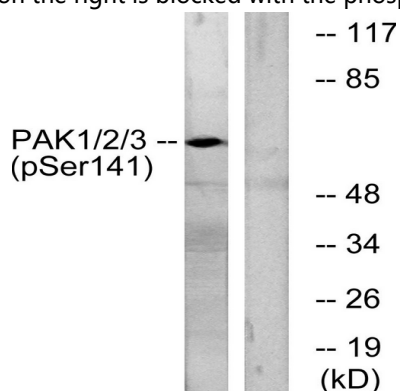
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PAK1/2/3 (Phospho-Ser144/141/139) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using PAK1/2/3 (Phospho-Ser144/141/139) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from mouse brain, using PAK1/2/3 (Phospho-Ser144/141/139) Antibody. The lane on the right is blocked with the phospho peptide.

## 注意事项 (Note)

For research use only .