

# Recombinant human PAK2 protein ab95310

## 2 图像

### 描述

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产品名称	重组人PAK2蛋白
生物活性	86 nmoles/min/μg Analysis of enzymatic activity: 1. Different concentrations of PAK2 were incubated in a buffer containing 50 mM HEPES (pH7.5), 10 mM MgCl <sub>2</sub> , 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, and 2 μM substrate (SER/THR 20) at room temperature for 1 hour. 2. Developer solution was added to reaction and reaction was stopped after 1h of incubation at RT. 3. Fluorescence was detected using $\lambda_{exc}=460\pm40$ nm and $\lambda_{em}=528\pm20$ nm filters.
纯度	> 90 % SDS-PAGE.
表达系统	Escherichia coli
Accession	<b><u>Q13177</u></b>
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
预测分子量	33 kDa
氨基酸	227 to 524

### 技术指标

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Our **Abpromise guarantee** covers the use of **ab95310** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Functional Studies
形式	Liquid

### 制备和贮存

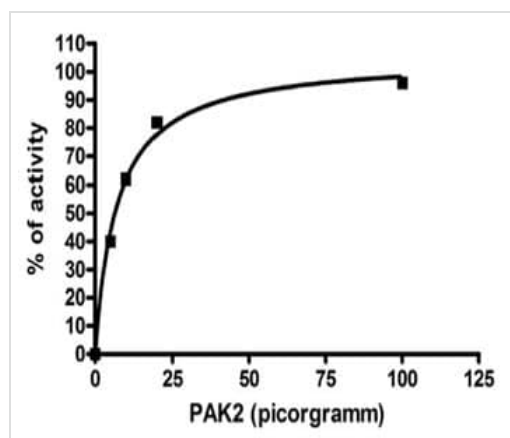
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稳定性和存储	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.077% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 10% Glycerol (glycerin, glycerine), 0.87% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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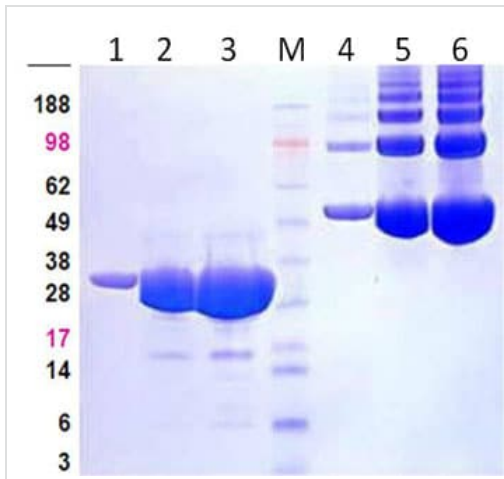
## 常规信息

<b>功能</b>	The activated kinase acts on a variety of targets. Phosphorylates ribosomal protein S6, histone H4 and myelin basic protein. Full length PAK 2 stimulates cell survival and cell growth. The process is, at least in part, mediated by phosphorylation and inhibition of pro-apoptotic BAD. Caspase-activated PAK-2p34 is involved in cell death response, probably involving the JNK signaling pathway. Cleaved PAK-2p34 seems to have a higher activity than the CDC42-activated form.
<b>组织特异性</b>	Ubiquitously expressed. Higher levels seen in skeletal muscle, ovary, thymus and spleen.
<b>序列相似性</b>	Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain.
<b>翻译后修饰</b>	Full length PAK 2 is autophosphorylated when activated by CDC42/p21. Following cleavage, both peptides, PAK-2p27 and PAK-2p34, become highly autophosphorylated, with PAK-2p27 being phosphorylated on serine and PAK-2p34 on threonine residues, respectively. Autophosphorylation of PAK-2p27 can occur in the absence of any effectors and is dependent on phosphorylation of Thr-402, because PAK-2p27 is acting as an exogenous substrate. During apoptosis proteolytically cleaved by caspase-3 or caspase-3-like proteases to yield active PAK-2p34. Ubiquitinated, leading to its proteasomal degradation. PAK-2p34 is myristoylated.
<b>细胞定位</b>	Cytoplasm and Nucleus. Cytoplasm > perinuclear region. Membrane. Interaction with ARHGAP10 probably changes PAK-2p34 location to cytoplasmic perinuclear region. Myristoylation changes PAK-2p34 location to the membrane.

## 图片



Functional Studies - Recombinant human PAK2 protein (ab95310)



SDS-PAGE analysis of PAK2 (ab95310) and BSA

1, 2, 3 : ab95310 at 6, 60 and 120ug/ml

4, 5, 6 : BSA at 5, 50, 100ug/ml

SDS-PAGE - Recombinant human PAK2 protein  
(ab95310)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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