

### Recombinant Human PAK2 protein ab125597

#### 1 图像

#### 描述

产品名称	重组人PAK2蛋白
纯度	> 70 % SDS-PAGE. Assessed by densitometry. Affinity purified.
表达系统	Baculovirus infected Sf9 cells
Accession	<b><u>Q13177</u></b>
蛋白长度	Full length protein
无动物成分	No
性质	Recombinant
种属	Human
预测分子量	87 kDa including tags
氨基酸	1 to 524

#### 技术指标

Our **Abpromise guarantee** covers the use of **ab125597** in the following tested applications.

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

应用	SDS-PAGE
形式	Liquid

#### 制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.29% Sodium chloride
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#### 常规信息

功能	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.
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#### 组织特异性

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.

#### 序列相似性

Ubiquitously expressed. Higher levels seen in skeletal muscle, ovary, thymus and spleen.

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.

Contains 1 CRIB domain.

Contains 1 protein kinase domain.

#### 翻译后修饰

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.

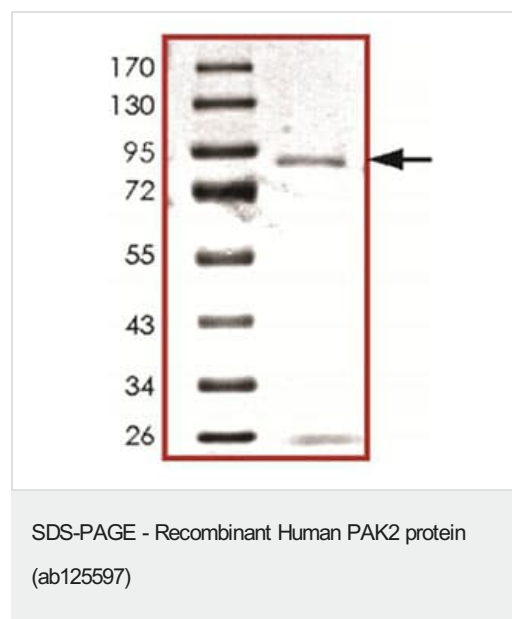
Ubiquitinated, leading to its proteasomal degradation.

PAK-2p34 is myristoylated.

#### 细胞定位

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



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