

Recombinant human PAK2 protein ab95310

画像数 2

製品の詳細

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|-------------|---|
| 製品名 | Recombinant human PAK2 protein |
| 生理活性 | 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 ₂ , 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 λ _{exc} =460±40 nm and λ _{em} =528±20 nm filters. |
| 精製度 | > 90 % SDS-PAGE. |
| 発現系 | Escherichia coli |
| アクセッション番号 | Q13177 |
| タンパク質長 | Protein fragment |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 予測される分子量 | 33 kDa |
| 領域 | 227 to 524 |

特性

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.

アプリケーション Functional Studies

製品の状態 Liquid

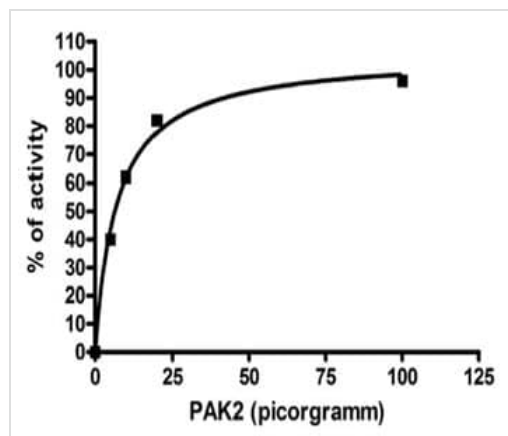
前処理および保存

保存方法および安定性 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.

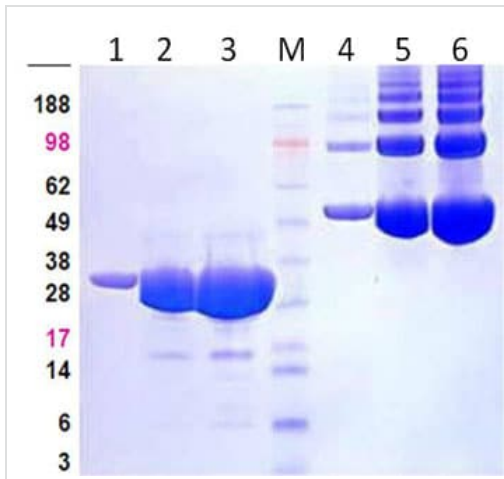
関連情報

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|--------------|---|
| 機能 | 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. 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. |
| 組織特異性 | Ubiquitously expressed. Higher levels seen in skeletal muscle, ovary, thymus and spleen. |
| 配列類似性 | Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain. |
| 翻訳後修飾 | 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. |
| 細胞内局在 | 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. |

画像



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)

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