

Product datasheet

Recombinant human PAK1 protein ab125805

2 Images

Overview

<b>Product name</b>	Recombinant human PAK1 protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Baculovirus infected Sf9 cells
<b>Amino Acid Sequence</b>	
<b>Accession</b>	<a href="#">Q13153</a>
<b>Species</b>	Human
<b>Molecular weight</b>	95 kDa including tags
<b>Amino acids</b>	1 to 545

Specifications

Our [Abpromise guarantee](#) covers the use of **ab125805** in the following tested applications.

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

<b>Biological activity</b>	The specific activity of ab125805 was determined to be 68 - 74 nmol/min/mg.
<b>Applications</b>	Western blot Functional Studies SDS-PAGE
<b>Purity</b>	> 95 % Densitometry. Purity was determined to be >95% by densitometry.
<b>Form</b>	Liquid

Preparation and Storage

<b>Stability and Storage</b>	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, 0.88% Sodium chloride
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## General Info

### 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.

### Sequence similarities

Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 CRIB domain. Contains 1 protein kinase domain.

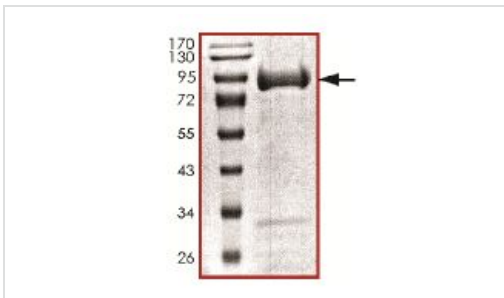
### Post-translational modifications

Autophosphorylated when activated by CDC42/p21 and RAC1.

### Cellular localization

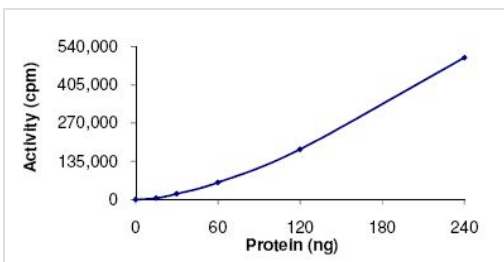
Cytoplasm. Cell junction > focal adhesion. Recruited to focal adhesions upon activation.

## Images



SDS-PAGE analysis of ab125805.

SDS-PAGE - Recombinant human PAK1 protein  
(ab125805)



Sample Kinase Assay showing the specific activity of ab125805 to be 68 nmol/min/mg.

Functional Studies - PAK1 protein (Active)  
(ab125805)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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