

Datasheet for ABIN5569917
PAK1 Protein (AA 248-545)



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2 Images

Overview

Quantity:	10 µg
Target:	PAK1
Protein Characteristics:	AA 248-545
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	SDS-PAGE (SDS), Functional Studies (Func)

Product Details

Purpose:	PAK1 (Human) Recombinant Protein
Sequence:	<p>GPHMSDEEILEKLR SIVSVGDPKK KYTRFEKIGQ GASGTVYTAM DVATGQEVAI KQMNLQQQPK KELIINEILV MRENKNPNIV NYLDSYLVGD ELWVWMEYLA GGSLTDVVTE TCMDEGQIAA VCRECLQALE FLHSNQVIHR DIKSDNILLG MDGSVKLTDF GFCAQITPEQ SKRS<u>I</u>MVGTPYWMAP EVVTRKAYGP KVDIWSLGIM AIEMIEGEPP YLNENPLRAL YLIATNGTPE LQNPEKLSAI FRDFLNRCLE MDVEKRGSAK ELLQHQLFKI AKPLSSLTPL IAAAKEATKN NH</p> <p>The first 4 residues GPHM are from Turbo3C Protease cleavage site. The underlined I is phosphorylated T423.</p>
Characteristics:	<p>Human PAK1 kinase domain (Q13153, 248 a.a. - 545 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i>. The recombinant protein does not have the inhibitory switch domain and has high specific activity.</p> <p>This product with activity data is belong to bioactive protein.</p>

Product Details

Purification: Escherichia coli expression system

Target Details

Target: PAK1

Alternative Name: PAK1 ([PAK1 Products](#))

Background: Full Gene Name: p21 protein (Cdc42/Rac)-activated kinase 1
Synonyms: MGC130000,MGC130001,PAKalpha

Gene ID: 5058

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Skeletal Muscle Fiber Development](#), [CXCR4-mediated Signaling Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [Embryonic Body Morphogenesis](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: *Escherichia coli* expression system
Product Quality tested by: Loading 8 ug protein in SDS-PAGE

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: In 25 mM Tris-HCl pH 8.0, 150 mM NaCl, 10 % glycerol, 5 mM DTT.

Preservative: Dithiothreitol (DTT)

Precaution of Use: This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Aliquot to avoid repeated freezing and thawing.

Storage: -80 °C

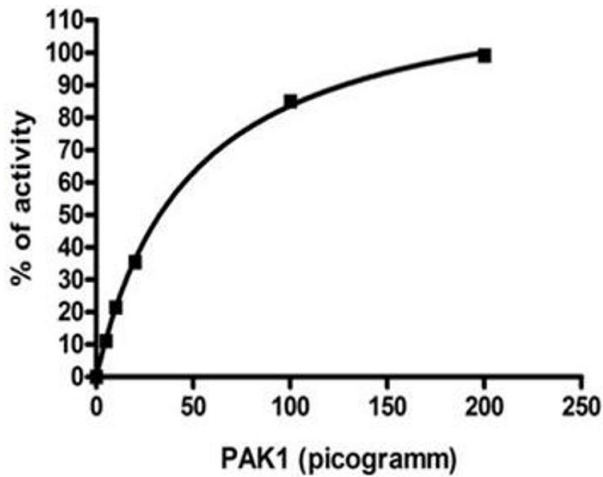


Image 1. Analysis of enzymatic activity was performed according to the Zlyte assay protocol (Invitrogen): 1. Different concentrations of PAK1 were incubated in a buffer containing 50 mM HEPES pH 7.5, 10 mM MgCl₂, 1 mM EGTA, 200 μ M ATP, 0.01% Brij-35, and 2 μ M substrate (SER/THR 14, Invitrogen) at RT for 1 hour. 2. Developer solution was added to the reaction and the reaction was stopped after 1 hour of incubation at RT. 3. Fluorescence was then detected using $\lambda_{exc}=460\pm 40$ nm and $\lambda_{em}=528\pm 20$ nm filters.

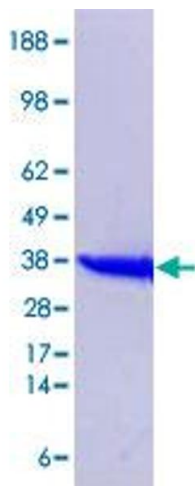


Image 2.