

Product datasheet

Recombinant mouse PAK3 protein ab61414

[5 Images](#)

Description

Product name	Recombinant mouse PAK3 protein
Biological activity	Specific activity: 259 nmol/min/mg.
Purity	> 75 % Densitometry. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Mouse

Specifications

Our **Abpromise guarantee** covers the use of **ab61414** in the following tested applications.

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

Applications Functional Studies
SDS-PAGE

Form Liquid

Additional notes **ab43614** (Human Myelin Basic Protein full length protein) can be utilized as a substrate for assessing Kinase activity

Preparation and Storage

Stability and Storage Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
pH: 7.50
Constituents: 0.0038% EGTA, 0.00174% PMSF, 0.00385% DTT, 0.79% Tris HCl, 0.00292% EDTA, 25% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

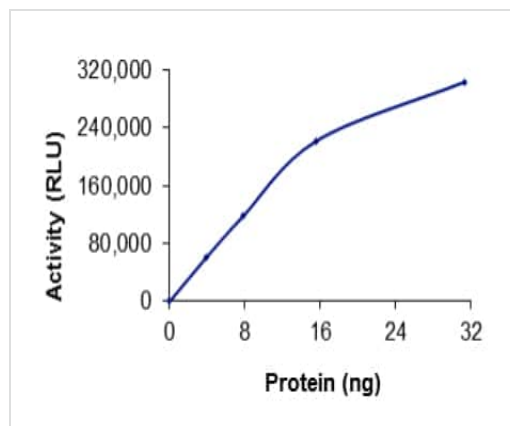
Relevance

PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. PAK3 forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. It may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. A point mutation in this gene has been linked to nonsyndromic X-linked mental retardation.

Cellular localization

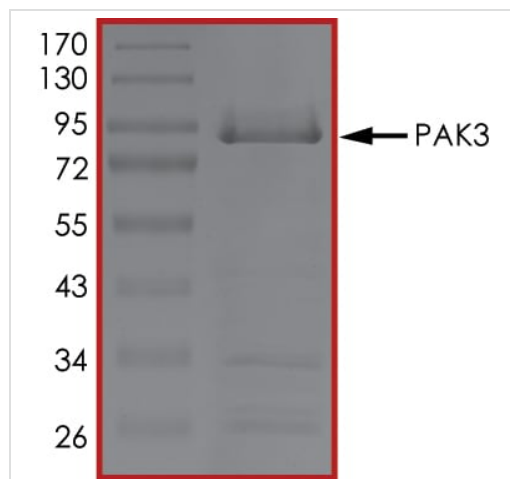
Cytoplasmic

Images



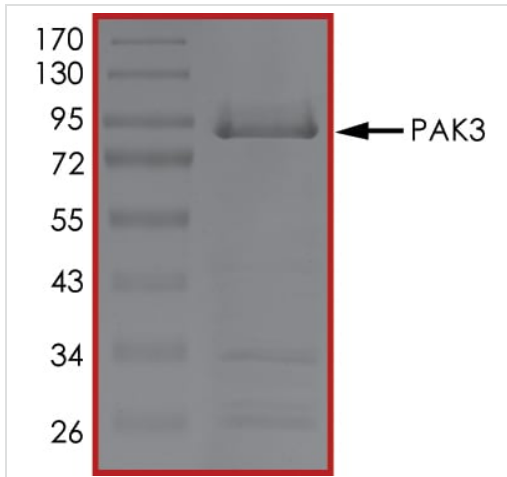
The specific activity of PAK3 (ab61414) was determined to be 54.2 nmol/min/mg as per activity assay protocol and was equivalent to 270 nmol/min/mg as per radiometric assay

Functional Studies - Recombinant mouse PAK3 protein (ab61414)



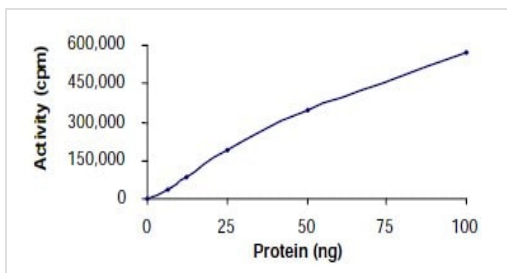
SDS PAGE analysis of ab61414

SDS-PAGE - Recombinant mouse PAK3 protein (ab61414)



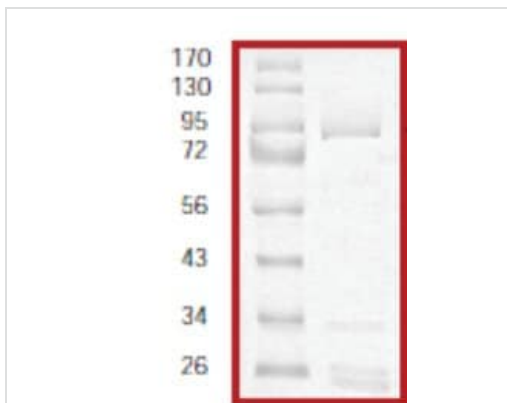
SDS PAGE analysis of ab61414

SDS-PAGE - Recombinant mouse PAK3 protein (ab61414)



Sample Kinase Activity Plot.

Functional Studies - Recombinant mouse PAK3 protein (ab61414)



SDS-PAGE - Recombinant mouse PAK3 protein (ab61414)

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

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