

For Research Use Only

# PAK3 Polyclonal antibody

Catalog Number: 32848-1-AP



## Basic Information

Catalog Number:

32848-1-AP

Concentration:

270 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG38566

GenBank Accession Number:

NM\_001128173.2

GeneID (NCBI):

5063

UNIPROT ID:

O75914

Full Name:

p21 protein (Cdc42/Rac)-activated kinase 3

Calculated MW:

62kDa, 559aa

Observed MW:

64 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:1000-1:6000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat, pig

Positive Controls:

WB : fetal human brain tissue, mouse brain tissue, pig brain tissue, rat brain tissue

## Background Information

PAK3, also known as p21-activated kinase 3, is a member of the PAK family of serine/threonine protein kinases, classified as Group I PAK kinases along with PAK1 and PAK2. PAK3 is predominantly expressed in neural cells, especially in regions such as the brain. PAK3 plays a crucial role in dendritic spine development and synaptic plasticity. PAK3 plays an important role in cell migration and morphology. It regulates dynamic changes in the actomyosin cytoskeleton, microtubules, and adhesion interactions with the microenvironment. In neurons and other cell types, PAK3 contributes to cell migration, neurite growth, and dendritic spine morphogenesis by participating in signaling cascades that control cell adhesion and cell motility. Mutations in PAK3 are associated with X-linked non-syndromic intellectual disability.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

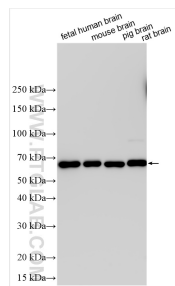
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32848-1-AP (PAK3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.