

Product Name: PAKβ Rabbit Polyclonal Antibody

Catalog #: APRab15716

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA
Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:20000-1:40000

Molecular Weight 72kDa

Antigen Information

Alternative Names

Gene Name PAK3

PAK3; OPHN3; Serine/threonine-protein kinase PAK 3; Beta-PAK; Oligophrenin-3; p21-

activated kinase 3; PAK-3

 Gene ID
 5063.0

 SwissProt ID
 075914

The antiserum was produced against synthesized peptide derived from human PAK3. AA **Immunogen**

range:121-170

Background

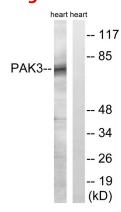


The protein encoded by this gene is a serine-threonine kinase and forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1. This protein may be necessary for dendritic development and for the rapid cytoskeletal reorganization in dendritic spines associated with synaptic plasticity. Defects in this gene are the cause of non-syndromic mental retardation Xlinked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47). Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeg, Apr 2016],catalytic activity:ATP + a protein = ADP + a phosphoprotein, cofactor: Magnesium, disease: Defects in PAK3 are the cause of mental retardation X-linked type 30 (MRX30) [MIM:300558]; also called X-linked mental retardation type 47 (MRX47). Mental retardation is a mental disorder characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. Non-syndromic mental retardation patients do not manifest other clinical signs,,enzyme regulation: Activated by binding small G proteins. Binding of GTP-bound CDC42 or RAC1 to the autoregulatory region releases monomers from the autoinhibited dimer, enables phosphorylation of Thr-436 and allows the kinase domain to structure.,function:Key regulator formation adopt active svnapse and plasticity the hippocampus.,PTM:Autophosphorylated when activated by CDC42/p21.,similarity:Belongs to the protein kinase superfamily., similarity: Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily, similarity: Contains 1 CRIB domain, similarity: Contains 1 protein kinase domain, subunit: Interacts tightly with GTPbound but not GDP-bound CDC42/p21 and RAC1. Shows highly specific binding to the SH3 domains of phospholipase Cgamma and of adapter protein NCK., tissue specificity: Highly expressed in postmitotic neurons of the developing and postnatal cerebral cortex and hippocampus.,

Research Area

ErbB HER; Axon guidance; Focal adhesion; T Cell Receptor; Regulates Actin and Cytoskeleton; Renal cell carcinoma;

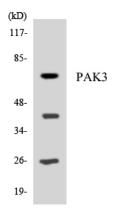
Image Data



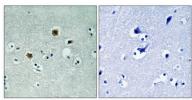
Western blot analysis of lysates from rat heart cells, using PAK3 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HeLa cells using PAK3 antibody.



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4°,overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.