

DNAxPAb

Hard-to-Find
Antibody

PAK3 DNAxPab

Catalog # H00005063-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human PAK3 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MSDGLDNEEKPPAPPLRMNSNNRDSSALNHSSKPLPMAPEEKNKKARLSIFPGGGDKTNKKK EKERPEISLPSEDFEHTIHVGFDVAVTGEFTGIPEQWARLLQTSNITKLEQKKNPQAVLDVLKFYDSKE TVNNQKYMSFTSGDKSAHGYYAAHPSSTKTASEPPLAPPVSEEEDEEEEEEDENEPPIAPRP EHTKSIYTRSVVESIASPAVPNKEVTPPSAENANSSTLYRNTDRQRKSKMTDEEILEKLRISVSVG DPKKKYTRFEKIGQGASGTVYALDIATGQEVAIKQMNLLQQPKKELINEILVMRENKNPNVNYLD SYLVGDELWVMEYLAGGSLTDVVTETCMDEGQIAAVCRECLQALDFLHSNQVIHRDIKSDNILLG MDGSVKLTDFGCAQITPEQSKRSTMVGTPTYWMAPEVVTRKAYGPKVDWSLGIMAIEMVEGEP PYLNENPLRALYLIATNGTPELQNPERSAVFRDFLNRCEMDVDRGSAKELLQHPFLKLAKPLS SLTPLIAAKEAIKNSSR
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

Gene Info — PAK3

Entrez GeneID [5063](#)

GeneBank Accession# [NM_002578.3](#)

Protein Accession# [NP_002569.1](#)

Gene Name PAK3

Gene Alias CDKN1A, MRX30, MRX47, OPHN3, PAK3beta, bPAK, hPAK3

Gene Description p21 protein (Cdc42/Rac)-activated kinase 3

Omim ID [300142 300558](#)

Gene Ontology [Hyperlink](#)

Gene Summary

PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins, a family of serine/threonine p21-activating kinases, serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. The protein encoded by this gene forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. 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 X-linked type 30 (MRX30), also called X-linked mental retardation type 47 (MRX47). Alternatively spliced transcript variants encoding different isoforms have been identified . [provided by RefSeq]

Other Designations

OTTHUMP00000023855|OTTHUMP00000062894|beta-PAK|oligophrenin-3|p21 (CDKN1A)-activated kinase 3|p21-activated kinase 3|p21-activated kinase-3|serine/threonine-protein kinase PAK 3

Pathway

- [Axon guidance](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Regulation of actin cytoskeleton](#)

- [Renal cell carcinoma](#)
- [T cell receptor signaling pathway](#)

Disease

- [Chronic Disease](#)
- [Cognition Disorders](#)
- [Endometrial Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Neuropsychological Tests](#)
- [Schizophrenia](#)