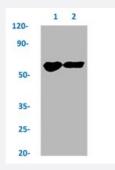
#### RecomAb™

# PAK1/PAK2/PAK3 (phospho S144/S141/S139) recombinant monoclonal antibody, clone 3H12

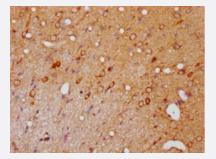
Catalog # RAB04240 Size 100 uL

# Applications



#### Western Blot

Western blot analysis of Lane 1: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and Lane 2: A549 whole cell lysate (not treated) with PAK1/PAK2/PAK3 (phospho S144/S141/S139) recombinant monoclonal antibody, clone 3H12 (Cat # RAB04240).



#### Immunohistochemistry

Immunohistochemical staining of rat brain tissue with PAK1/PAK2/PAK3 (phospho S144/S141/S139) recombinant monoclonal antibody, clone 3H12 (Cat # RAB04240) (diluated at 1:100).

## Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human PAK3/PAK1/PAK2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g S144/S141/S139 of human PAK1/PAK2/PAK3.
Theoretical MW (kDa)	Calculated MW: 65 kD
Reactivity	Human

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#### **Product Information**

Form	Liquid
Purification	Affinity chromatography
lsotype	lgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

## Applications

Western Blot

Western blot analysis of Lane 1: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and Lane 2: A549 whole cell lysate (not treated) with PAK1/PAK2/PAK3 (phospho S144/S141/S139) recombinant monoclonal antibody, clone 3H12 (Cat # RAB04240).

Immunohistochemistry

Immunohistochemical staining of rat brain tissue with PAK1/PAK2/PAK3 (phospho S144/S141/S139) recombinant monoclonal antibody, clone 3H12 (Cat # RAB04240) (diluated at 1:100).

Enzyme-linked Immunoabsorbent Assay

Gene Info — PAK1	
Entrez GenelD	<u>5058</u>
Protein Accession#	<u>075914;Q13153;Q13177</u>
Gene Name	PAK1
Gene Alias	MGC130000, MGC130001, PAKalpha
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 1
Omim ID	<u>602590</u>

🍟 Abnova	Product Information
Gene Ontology	Hyperlink
Gene Summary	PAK proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nucle ar signaling. PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PA K2, PAK3 and PAK4. These proteins serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK1 regulates cell m otility and morphology. Alternativelt spliced transcript variants encoding different isoforms have be en found for this gene. [provided by RefSeq
Other Designations	STE20 homolog, yeast p21-activated kinase 1 p21/Cdc42/Rac1-activated kinase 1 (STE20 hom olog, yeast) p21/Cdc42/Rac1-activated kinase 1 (yeast Ste20-related)

.

Gene Info — PAK2	
Entrez GenelD	5062
Protein Accession#	<u>O75914;Q13153;Q13177</u>
Gene Name	PAK2
Gene Alias	PAK65, PAKgamma
Gene Description	p21 protein (Cdc42/Rac)-activated kinase 2
Omim ID	605022
Gene Ontology	Hyperlink
Gene Summary	The p21 activated kinases (PAK) are critical effectors that link Rho GTPases to cytoskeleton reor ganization and nuclear signaling. The PAK proteins are a family of serine/threonine kinases that s erve as targets for the small GTP binding proteins, CDC42 and RAC1, and have been implicated in a wide range of biological activities. The protein encoded by this gene is activated by proteolyti c cleavage during caspase-mediated apoptosis, and may play a role in regulating the apoptotic e vents in the dying cell. [provided by RefSeq
Other Designations	S6/H4 kinase p21 (CDKN1A)-activated kinase 2 p21-activated kinase 2

Gene Info — PAK3	
Entrez GenelD	5063
Protein Accession#	<u>O75914;Q13153;Q13177</u>
Gene Name	PAK3
Gene Alias	CDKN1A, MRX30, MRX47, OPHN3, PAK3beta, bPAK, hPAK3

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**Product Information** 

Gene Description	p21 protein (Cdc42/Rac)-activated kinase 3
Omim ID Gene Ontology	<u>300142 300558</u> <u>Hyperlink</u>
Other Designations	OTTHUMP0000023855 OTTHUMP0000062894 beta-PAK oligophrenin-3 p21 (CDKN1A)-acti vated kinase 3 p21-activated kinase 3 p21-activated kinase-3 serine/threonine-protein kinase PA K 3

## Pathway

- Axon guidance
- Axon guidance
- Axon guidance
- Chemokine signaling pathway
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- ErbB signaling pathway
- ErbB signaling pathway
- Fc gamma R-mediated phagocytosis
- Focal adhesion
- Focal adhesion
- Focal adhesion
- MAPK signaling pathway
- <u>MAPK signaling pathway</u>

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# **Product Information**

- Natural killer cell mediated cytotoxicity
- <u>Regulation of actin cytoskeleton</u>
- <u>Regulation of actin cytoskeleton</u>
- <u>Regulation of actin cytoskeleton</u>
- <u>Renal cell carcinoma</u>
- Renal cell carcinoma
- Renal cell carcinoma
- <u>T cell receptor signaling pathway</u>
- <u>T cell receptor signaling pathway</u>
- <u>T cell receptor signaling pathway</u>

#### Disease

- Carcinoma
- <u>Chronic Disease</u>
- Cognition Disorders
- Endometrial Neoplasms
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- HIV Infections
- HIV Infections
- <u>Neuropsychological Tests</u>
- Schizophrenia
- Schizophrenia
- <u>Tobacco Use Disorder</u>