

## Rabbit PAK3 Polyclonal Antibody | anti-PAK3 antibody

PAK3 (Ab-154) Antibody

|                               |                       |                                     |
|-------------------------------|-----------------------|-------------------------------------|
| CATALOG #<br><b>AAA305753</b> | HOST<br><b>Rabbit</b> | APPLICATIONS<br><b>Western Blot</b> |
|-------------------------------|-----------------------|-------------------------------------|

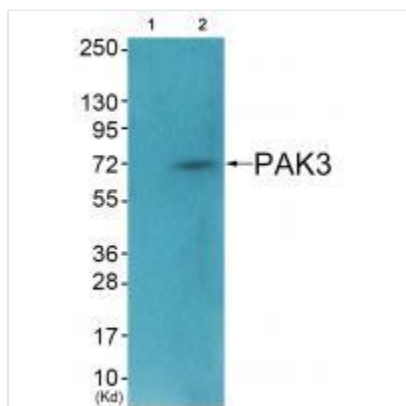
### PRODUCT SYNONYMS

PAK3; Polyclonal Antibody; PAK3 (Ab-154) Antibody; beta-PAK; CDC42/RAC effector kinase PAK-B; EC 2.7.1.; EC 2.7.11.1; kinase PAK3; anti-PAK3 antibody

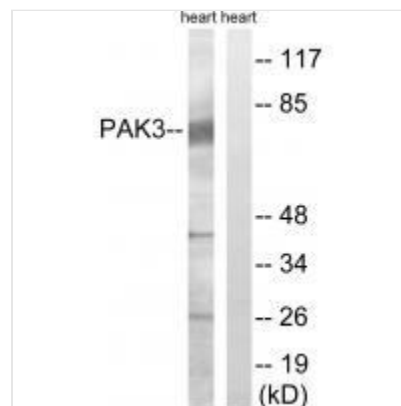
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                    |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                             |
| Clonality                                      | Polyclonal                                                                                                                                         |
| Specificity                                    | The antibody detects endogenous levels of total PAK3 protein.                                                                                      |
| Purity/Purification                            | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                              |
| Form/Format                                    | Rabbit IgG in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Concentration                                  | 1.0 mg/ml (varies by lot)                                                                                                                          |
| Sequence Length                                | 544                                                                                                                                                |
| Applicable Applications for anti-PAK3 antibody | WB (Western Blot)                                                                                                                                  |
| Immunogen Type                                 | Peptide                                                                                                                                            |
| Immunogen Description                          | Synthesized non-phosphopeptide derived from human PAK3 around the phosphorylation site of serine 154 (Y-M-S(p)-F-T).                               |
| Target Name                                    | PAK3                                                                                                                                               |
| Preparation and Storage                        | Store at -20 degree C                                                                                                                              |

### IMAGES


**WB (Western Blot)**

Western blot analysis of extracts from HeLa cells (Lane 2), using PAK3 (Ab-154) antibody. The lane on the left is treated with synthesized peptide.


**WB (Western Blot)**

Western blot analysis of extracts from rat heart, using PAK3 (Ab-154) antibody.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PAK3 antibody | Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, or cell cycle regulation. Plays a role in dendrite spine morphogenesis as well as synapse formation and plasticity. Acts as downstream effector of the small GTPases CDC42 and RAC1. Activation by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Additionally, phosphorylates TNNI3/troponin I to modulate calcium sensitivity and relaxation kinetics of thin myofilaments. May also be involved in early neuronal development.Allen K.M., Nat. Genet. 20:25-30(1998).Jiang C., Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.Kitano T., Mol. Biol. Evol. 20:1281-1289(2003). |
| Product Categories/Family for anti-PAK3 antibody   | Total protein Ab                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 189491751                                                                                      |
| NCBI GeneID                      | 5063                                                                                           |
| NCBI Accession #                 | NP_001121638.1                                                                                 |
| NCBI GenBank Nucleotide #        | NM_001128166.1                                                                                 |
| UniProt Accession #              | O75914; Q5JWX1; Q5JWX2; Q7Z2D6; Q7Z2E4; Q7Z3Z8; Q8WWK5; Q8WX23; A8K389; B1GX77; B1GX78; B1GX79 |
| Molecular Weight                 | 62,913 Da                                                                                      |
| NCBI Official Full Name          | serine/threonine-protein kinase PAK 3 isoform a                                                |
| NCBI Official Synonym Full Names | p21 protein (Cdc42/Rac)-activated kinase 3                                                     |
| NCBI Official Symbol             | PAK3                                                                                           |
| NCBI Official Synonym Symbols    | bPAK; MRX30; MRX47; OPHN3; PAK-3; PAK3beta; beta-PAK                                           |
| NCBI Protein Information         | serine/threonine-protein kinase PAK 3                                                          |
| UniProt Protein Name             | Serine/threonine-protein kinase PAK 3                                                          |
| UniProt Gene Name                | PAK3                                                                                           |
| UniProt Synonym Gene Names       | OPHN3; PAK-3                                                                                   |
| UniProt Entry Name               | PAK3_HUMAN                                                                                     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.