



# PAK5/6 Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | YP-Ab-14892                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reactivity</b>         | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>       | WB;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | PAK6/PAK7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Name</b>       | Serine/threonine-protein kinase PAK 6/7                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human PAK5/6. AA range:566-615                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Specificity</b>        | PAK5/6 Polyclonal Antibody detects endogenous levels of PAK5/6 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>           | PAK7; KIAA1264; PAK5; Serine/threonine-protein kinase PAK 7; p21-activated kinase 5; PAK-5; p21-activated kinase 7; PAK-7; PAK6; PAK5; Serine/threonine-protein kinase PAK 6; PAK-5; p21-activated kinase 6; PAK-6                                                                                                                                                                                                                                                                                          |
| <b>Observed Band</b>      | 75kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cell Pathway</b>       | Mitochondrion. Cytoplasm. Nucleus. Shuttles between the nucleus and the mitochondria, and mitochondrial localization is essential for the role in cell survival.                                                                                                                                                                                                                                                                                                                                            |
| <b>Tissue Specificity</b> | Predominantly expressed in brain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Function</b>           | catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:The activated kinase acts on a variety of targets.,PTM:Autophosphorylated when activated by CDC42/p21.,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 GTP-bound but not GDP-bound CDC42/p21 and RAC1.,tissue specificity:Predominantly expressed in brain., |
| <b>Background</b>         | The protein encoded by this gene is a member of the PAK family of Ser/Thr protein kinases. PAK family members are known to be effectors of Rac/Cdc42 GTPases, which have been implicated in the regulation of cytoskeletal dynamics, proliferation, and cell survival signaling. This kinase contains a CDC42/Rac1                                                                                                                                                                                          |



interactive binding (CRIB) motif, and has been shown to bind CDC42 in the presence of GTP. This kinase is predominantly expressed in brain. It is capable of promoting neurite outgrowth, and thus may play a role in neurite development. This kinase is associated with microtubule networks and induces microtubule stabilization. The subcellular localization of this kinase is tightly regulated during cell cycle progression. Alternatively spliced transcript variants encoding the same protein have been described. [provided by RefSeq, Jul 2008],

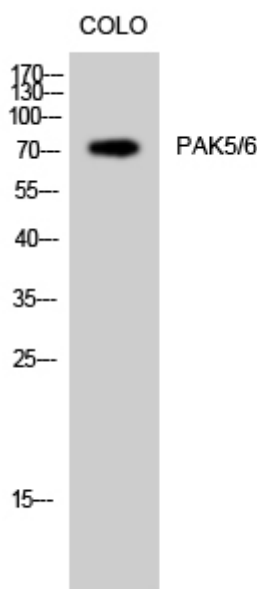
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of COLO cells using PAK5/6 Polyclonal Antibody