# ARG43087
# anti-PAK5 / PAK7 antibody

Package: 50 µg
Store at: -20°C

## Summary

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|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes PAK5 / PAK7 |
| Tested Reactivity | Hu, Ms, Rat |
| Predict Reactivity | Hm |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | PAK5 / PAK7 |
| Species | Human |
| Immunogen | Synthetic peptide corresponding to aa. 26-55 of Human PAK5. (DPQEQKFTGLPQQWHSLLADTANRPKPMVD) |
| Conjugation | Un-conjugated |
| Alternate Names | EC 2.7.11.1; Serine/threonine-protein kinase PAK 7; PAK5; p21-activated kinase 7; p21-activated kinase 5; PAK-7; PAK-5 |

## Application Instructions

Application table

| Application | Dilution |
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| WB | 1:500 - 1:2000 |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Positive Control | Rat brain, Mouse brain and U87 |
| Observed Size | ~ 80 kDa |

## Properties

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| Form | Liquid |
| Purification | Affinity purification with immunogen. |
| Buffer | 0.2% Na2HPO4, 0.9% NaCl, 0.05% Sodium azide and 5% BSA. |
| Preservative | 0.05% Sodium azide |
| Stabilizer | 5% BSA |
| Concentration | 0.5 mg/ml |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed |

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| | before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

## Bioinformation

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| Gene Symbol | PAK7 |
| Gene Full Name | p21 protein (Cdc42/Rac)-activated kinase 7 |
| Background | 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] |
| Function | Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates the proto-oncogene RAF1 and stimulates its kinase activity. Promotes cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Phosphorylates CTNND1, probably to regulate cytoskeletal organization and cell morphology. Keeps microtubules stable through MARK2 inhibition and destabilizes the F-actin network leading to the disappearance of stress fibers and focal adhesions. [UniProt] |
| Calculated Mw | 81 kDa |
| PTM | Autophosphorylated when activated by CDC42/p21. [UniProt] |
| Cellular Localization | Mitochondrion. Cytoplasm. Nucleus. Note=Shuttles between the nucleus and the mitochondria, and mitochondrial localization is essential for the role in cell survival. [UniProt] |

## Images


ARG43087 anti-PAK5 / PAK7 antibody WB image

Western blot: 50 µg of Rat brain, 50 µg of Mouse brain and 40 µg of U87 whole cell lysates stained with ARG43087 anti-PAK5 / PAK7 antibody at 0.5 µg/ml dilution.