

ARG42665 anti-PAK3 antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|--|
| Product Description | Rabbit Polyclonal antibody recognizes PAK3 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | IHC-P, WB |
| Specificity | ARG42665 anti-PAK3 antibody reacts to PAK1 with low binding affinity and not react to PAK2. |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | PAK3 |
| Species | Human |
| Immunogen | Synthetic peptide within aa. 1-50 of Human PAK3. |
| Conjugation | Un-conjugated |
| Alternate Names | beta-PAK; bPAK; MRX30; PAK3beta; OPHN3; Oligophrenin-3; MRX47; Serine/threonine-protein kinase PAK 3; EC 2.7.11.1; PAK-3; p21-activated kinase 3; Beta-PAK |

Application Instructions

| Application table | Application | Dilution |
|-------------------|--|-----------------|
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:1000 - 1:5000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | Human fetal brain | |
| Observed Size | ~ 60 kDa | |

Properties

| | |
|---------------------|---|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |
| 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. 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 before use. |

Note

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

Bioinformation

| | |
|-----------------------|---|
| Gene Symbol | PAK3 |
| Gene Full Name | p21 protein (Cdc42/Rac)-activated kinase 3 |
| Background | The protein encoded by this gene is a serine-threonine kinase and forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1. 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 a non-syndromic form of X-linked intellectual disability. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2017] |
| Function | 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. [UniProt] |
| Calculated Mw | 62 kDa |
| PTM | Autophosphorylated when activated by CDC42/p21. Neddylated. [UniProt] |
| Cellular Localization | Cytoplasm. [UniProt] |

Images

