

Product Name: PAK3 (1010) Rabbit Monoclonal Antibody

Catalog #: AMRe15708

For research use only.

Summary

Description Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB,IHC

ReactivityHuman,Mouse,RatConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Monoclonal
Form Liquid

Concentration 0.24mg/ml. The concentration of this product may be batch-dependent.

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative

Buffer N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw

cycle.

Purification Affinity purification

Application

Dilution Ratio WB 1:2000-1:20000,IHC 1:100-1:200

Molecular Weight 62kDa

Antigen Information

Alternative Names

Gene Name PAK3

Beta PAK; bPAK; CDKN1A; hPAK3; MRX30; MRX47; OPHN3; PAK3beta; Pak65alpha;

Pak65beta; Stk4;

 Gene ID
 5063.0

 SwissProt ID
 075914

Immunogen A synthetic peptide of human PAK3

Background

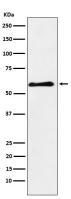


PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. PAK proteins serve as targets for the small GTP binding proteins Cdc42 and RAC and have been implicated in a wide range of biological activities. PAK3 forms an activated complex with GTP-bound RAS-like (P21), CDC2 and RAC1 proteins which then catalyzes a variety of targets. 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. In hippocampal neurons, necessary for the formation of dendritic spines and excitatory synapses; this function is dependent on kinase activity and may be exerted by the regulation of actomyosin contractility through the phosphorylation of myosin II regulatory light chain (MLC) (By similarity).

Research Area

Neuroscience

Image Data



Western blot analysis of PAK3 expression in human fetal brain lysate.

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