

PACO23067

Product Information

Size:

100ul

Reactivity:

Human, Mouse

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:3000

Protein Background:

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.

Gene ID:

PAK3

Uniprot

O75914

Synonyms:

beta-PAK; CDC42/RAC effector kinase PAK-B; EC 2.7.1.; EC 2.7.11.1; kinase PAK3

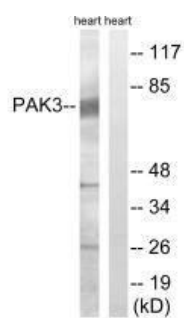
Immunogen:

Synthesized non-phosphopeptide derived from human PAK3 around the phosphorylation site of serine 154 (Y-M-S(p)-F-T).

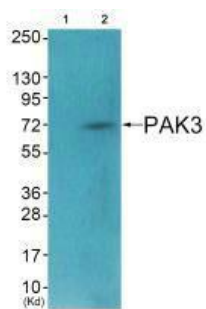
Storage:

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



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



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.