

RACO0414

Product Information

Size:

50ul

Reactivity:

Human, Mouse, Rat

Source:

Homo sapiens (Human)

Isotype:

Rabbit IgG

Applications:

ELISA, WB, FC, IP

Recommended dilutions:

WB:1:500-1:5000, FC:1:20-1:200, IP:1:200-1:1000

Protein Background:

Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell motility, cell cycle progression, apoptosis or proliferation. 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. Full-length PAK2 stimulates cell survival and cell growth. Phosphorylates MAPK4 and MAPK6 and activates the downstream target MAPKAPK5, a regulator of F-actin polymerization and cell migration. Phosphorylates JUN and plays an important role in EGF-induced cell proliferation. Phosphorylates many other substrates including histone H4 to promote assembly of H3.3 and H4 into nucleosomes, BAD, ribosomal protein S6, or MBP.

Gene ID:

PAK2

Uniprot

Q13177

Synonyms:

Serine/threonine-protein kinase PAK 2 (EC 2.7.11.1) (Gamma-PAK) (PAK65) (S6/H4 kinase) (p21-activated kinase 2) (PAK-2) (p58) [Cleaved into: PAK-2p27 (p27), PAK-2p34 (p34) (C-t-PAK2)], PAK2

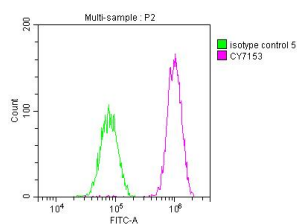
Immunogen:

A synthesized peptide derived from human PAK2.

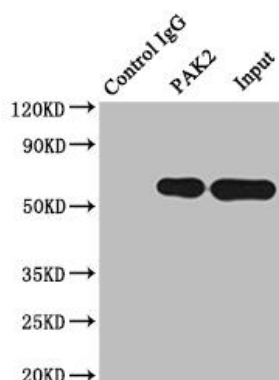
Storage:

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images



Overlay histogram showing HepG2 cells stained with RACO0414 (red line) at 1:50. The cells were fixed with 70% Ethylalcohol (18h) and then incubated in 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1 μ g) 1×10^6 cells for 1 h at 4°C. The secondary antibody used was FITC-conjugated goat anti-rabbit IgG (H+L) at 1/200 dilution for 30min at 4°C. Control antibody (green line) was Rabbit IgG (1 μ g) 1×10^6 cells used under the same conditions. Acquisition of > 10,000 events was performed.

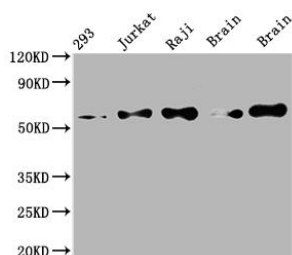


Immunoprecipitating PAK2 in Raji whole cell lysate) Lane 1: Rabbit control IgG instead of RACO0414 in Raji whole cell lysate)

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: RACO0414(2 μ g)+ Raji whole cell lysate)(500 μ g)

Lane 3: Raji whole cell lysate) (10 μ g)



Western Blot

Positive WB detected in(293 whole cell lysate) Jurkat whole cell lysate)

Raji whole cell lysate) Mouse brain tissue, Rat brain tissue

All lanes: PAK2 antibody at 1:2000

Secondary

Goat polyclonal to rabbit IgG at 1:50000 dilution

Predicted band size: 59 kDa

Observed band size: 59 kDa