Order: (888)-282-5810 (Phone)
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PAK2 (N2) Antibody, Rabbit Polyclonal

Cat#: R1208-2

Lot#: Refer to vial

Quantity: 100 ul

Application: WB

Predicted | Observed MW: 58 I 68 kDa

Uniprot ID: Q13177

Background:

p21-activated kinase 2 (PAK2) belongs to the protein kinase superfamily, STE Ser/Thr protein kinase family and STE20 subfamily. PAK2 plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell motility, cell cycle progression, apoptosis and proliferation. PAK2 acts as downstream effector of the small GTPases CDC42 and RAC1. Activation of PAK2 by the binding of active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation of PAK2. Activated PAK2 can phosphorylate many substrates including histone H4, BAD, ribosomal protein S6 and MBP. Additionally, PAK2 associates with ARHGEF7 and GIT1 to perform kinase-independent functions such as spindle orientation control during mitosis. On the other hand, apoptotic stimuli such as DNA damage lead to caspase-mediated cleavage of PAK2, generating PAK-2p34 that translocates to the nucleus and promotes cellular apoptosis involving the JNK signaling pathway.

Other Names:

Serine/threonine-protein kinase PAK 2, Gamma-PAK, PAK65, S6/H4 kinase, p21-activated kinase 2, PAK-2, p58

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human PAK2. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

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Product Data:

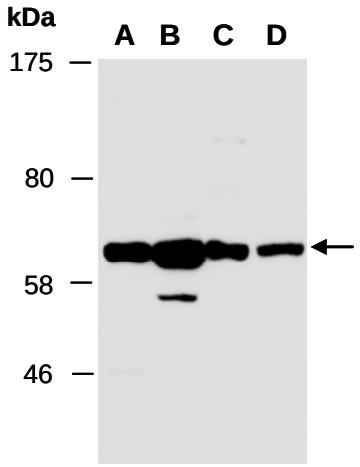

Fig 1. *Western blot of total cell extracts from (A) human HeLa, (B) human Jurkat, (C) mouse thymus, (D) mouse brain; using anti-PAK2 (N2) (R1208-2) at RT for 2 h.*

Last Update: 9/2012