



[Go to Product page](#)

Datasheet for ABIN7180067
anti-PAK2 antibody (Ser62)

1 Image

Overview

Quantity:	100 µL
Target:	PAK2
Binding Specificity:	Ser62
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	Synthesized non-phosphopeptide derived from Human PAK2 around the phosphorylation site of serine 62 (T-R-S(p)-V-I).
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Target Details

Target:	PAK2
Alternative Name:	PAK2 (PAK2 Products)

Target Details

Background: 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. Additionally, 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, an active p34 fragment that translocates to the nucleus and promotes cellular apoptosis involving the JNK signaling pathway. Caspase-activated PAK2 phosphorylates MKNK1 and reduces cellular translation.

Martin G.A.,EMBO J. 14:1970-1978(1995).

The MGC Project Team,Genome Res. 14:2121-2127(2004).

Olsen J.V.,Cell 127:635-648(2006).

Aliases: C-t-PAK2 antibody, CB422 antibody, EC 2.7.11.1 antibody, Gamma PAK antibody, Gamma-PAK antibody, hPAK65 antibody, Kinase antibody, p21 (CDKN1A) activated kinase 2 antibody, p21 (CDKN1A)-activated kinase 2a antibody, p21 activated kinase 2 antibody, p21 protein (Cdc42/Rac)-activated kinase 2 antibody, p21 protein Cdc42 Rac activated kinase 2 antibody, p21-activated kinase 2 antibody, p21-activated kinase, 65-KD antibody, p21-activated protein kinase I antibody, p21CDKN1A activated kinase 2 antibody, p27 antibody, p34 antibody, p58 antibody, p65PAK antibody, PAK 2 antibody, PAK-2 antibody, PAK-2p34 antibody, Pak2 antibody, PAK2_HUMAN antibody, PAK65 antibody, PAKgamma antibody, S6 H4 kinase antibody, S6/H4 kinase antibody, Serine threonine protein kinase PAK 2 antibody, Serine/threonine protein kinase PAK 2 antibody

UniProt: [Q13177](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: WB:1:500-1:3000,

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

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

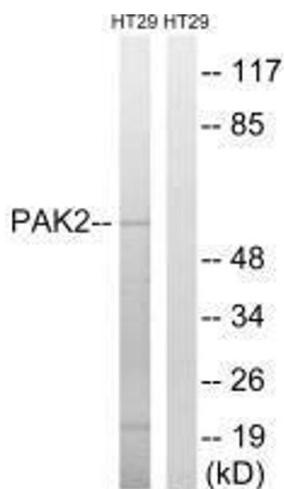
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, -80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Western Blotting

Image 1. Western blot analysis of extracts from HT-29 cells, using PAK2 (Ab-197) antibody.