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Datasheet for ABIN7169127  
**anti-PAK2 antibody (AA 1-212)**

3 Images

### Overview

Quantity:	100 µL
Target:	PAK2
Binding Specificity:	AA 1-212
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

### Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase PAK 2 protein (1-212AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

### Target Details

Target:	PAK2
Alternative Name:	PAK2 ( <a href="#">PAK2 Products</a> )
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

## Target Details

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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. 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

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UniProt: [Q13177](#)

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

## Application Details

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Application Notes: Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200,

Restrictions: For Research Use only

## Handling

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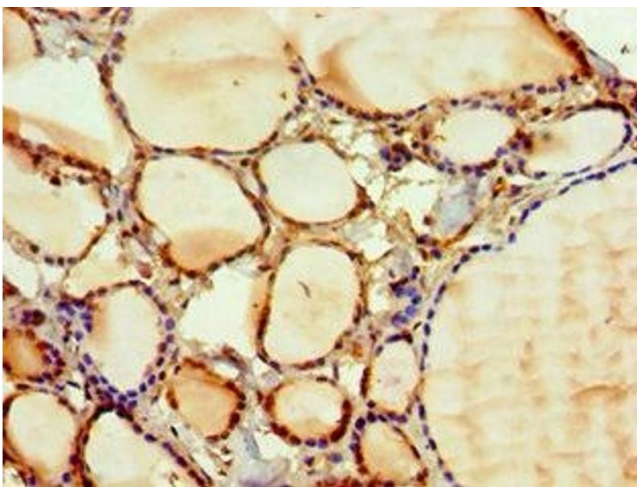
Format: Liquid

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## Handling

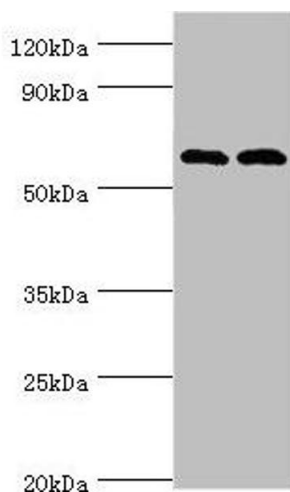
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

## Images



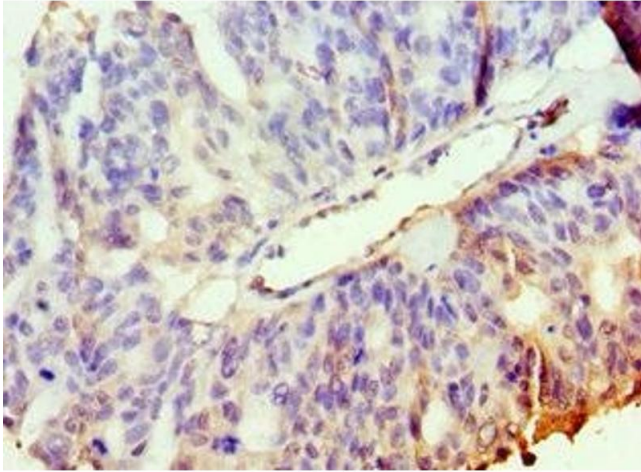
### Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human thyroid tissue using ABIN7169127 at dilution of 1:100



### Western Blotting

**Image 2.** Western blot All lanes: Serine/threonine-protein kinase PAK 2 antibody at 2 µg/mL Lane 1: Jurkat whole cell lysate Lane 2: Hela whole cell lysate Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 58 kDa Observed band size: 58 kDa



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded human endometrial cancer using ABIN7169127 at dilution of 1:100