

Datasheet for ABIN7169135
anti-PAK4 antibody (AA 1-426) (HRP)



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Overview

Quantity:	100 µg
Target:	PAK4
Binding Specificity:	AA 1-426
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PAK4 antibody is conjugated to HRP
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Serine/threonine-protein kinase PAK 4 protein (1-426AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	PAK4
Alternative Name:	PAK4 (PAK4 Products)
Background:	Background: Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, growth, proliferation or cell survival.

Target Details

Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates and inactivates the protein phosphatase SSH1, leading to increased inhibitory phosphorylation of the actin binding/depolymerizing factor cofilin. Decreased cofilin activity may lead to stabilization of actin filaments. Phosphorylates LIMK1, a kinase that also inhibits the activity of cofilin. Phosphorylates integrin beta5/ITGB5 and thus regulates cell motility. Phosphorylates ARHGEF2 and activates the downstream target RHOA that plays a role in the regulation of assembly of focal adhesions and actin stress fibers. Stimulates cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Alternatively, inhibits apoptosis by preventing caspase-8 binding to death domain receptors in a kinase independent manner. Plays a role in cell-cycle progression by controlling levels of the cell-cycle regulatory protein CDKN1A and by phosphorylating RAN.

Aliases: KIAA1142 antibody, p21 activated kinase 4 antibody, p21 Cdc42/Rac1-actiated kinase 4 antibody, P21 protein (Cdc42/Rac) activated kinase 4 antibody, p21(CDKN1A) activated kinase 4 antibody, p21-activated kinase 4 antibody, PAK 4 antibody, PAK-4 antibody, Pak4 antibody, PAK4_HUMAN antibody, Protein kinase related to S.cerevisiae STE20 effector for Cdc42Hs antibody, Serine threonine kinase PAK 4 antibody, Serine/threonine protein kinase PAK 4 antibody, Serine/threonine protein kinase PAK4 antibody, Serine/threonine-protein kinase PAK 4 antibody

UniProt: [O96013](#)

Pathways: [RTK Signaling](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

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

Handling

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