DATASHEET

PAK4/5/6 (Phospho-S474/560/602) Rabbit Monoclonal Antibody(C1520)

CAT. NO. AMA01132

KEY FEATURES

Target	PAK4/5/6 (Phospho-S474/560/602)	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.	Storage	at-20°C

BACKGROUND

Serine/threonine-protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell adhesion turnover, cell migration, growth, proliferation or cell survival . 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.

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Recombinant rabbit monoclonal antibody to PAK4/5/6 (Phospho-S474/560/602)
Specificity	Recognizes endogenous levels of PAK4/5/6 protein only when phosphorylated at S474/560/602
Antibody Type	Primary antibody, Recombinant
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S474/560/602 of human PAK4/5/6 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 64 kD; Observed: 72 kD
Form/Buffer	Liquid in PBS, pH 7.4, containing 50% glycerol, 0.2% BSA and 0.01% sodium azide.
Alternative Names	KIAA1142; Serine/threonine-protein kinase PAK 4; p21-activated kinase 4; PAK-4; PAK5; Serine/threonine-protein kinase PAK 6; PAK-5; p21-activated kinase 6; PAK-6
Gene Symbol	PAK4; PAK5; PAK6
Entrez Gene	10298; 56924(Human)
SwissProt	O96013; Q9P286; Q9NQU5(Human)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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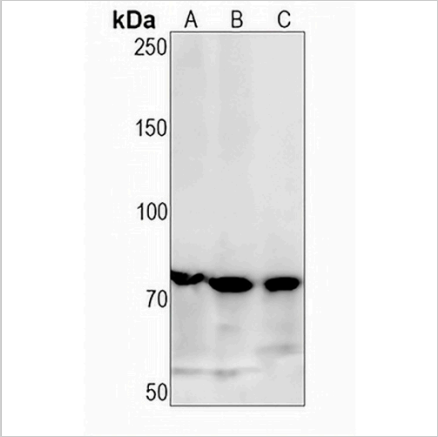

Western blot analysis of PAK4/5/6 (Phospho-S474/560/602) expression in K562 (A), MCF7 (B), PC3 (C) whole cell lysates. (Predicted band size: 64 kD; Observed band size: 72 kD)

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.