Anti-PAK1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R012623

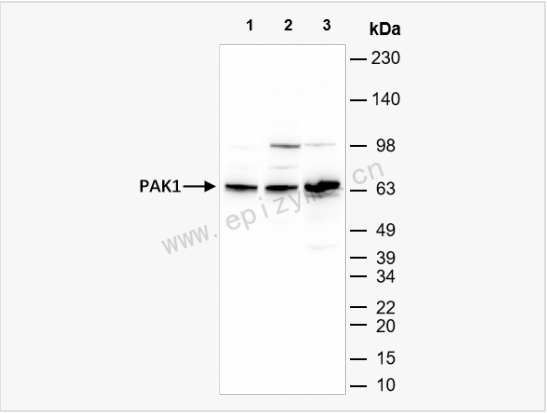
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Mouse, Human, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	41M74L14
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PAK1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PAK1 Rabbit mAb [41M74L14] is for research use only and not for use in diagnostic or therapeutic procedures.

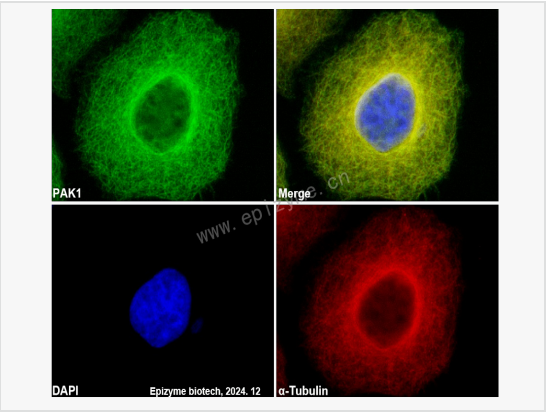
Protein Information

Synonyms	Alpha PAK, Alpha-PAK, MGC130000, MGC130001, p21 activated kinase 1, p21 protein (Cdc42/Rac) activated kinase 1, p21-activated kinase 1, p21/Cdc42/Rac1 activated kinase 1 (yeast Ste20 related), p21/Cdc42/Rac1-activated kinase 1 (STE20 homolog, yeast), p65 PAK, p65-PAK, P68-PAK, PAK alpha, PAK-1, Pak1, PAK1_HUMAN, Paka, PAKalpha, Protein kinase MUK2, Rac/p21-activated kinase, Serine/threonine-protein kinase PAK 1, STE20 homolog yeast.
Calculated MW	Calculated MW: 61 kDa; Observed MW: 68 kDa
Uniprot ID	Q13153
Gene ID	5058
Background	This gene encodes a family member of serine/threonine p21-activating kinases, known as PAK proteins. These proteins are critical effectors that link RhoGTPases to cytoskeleton reorganization and nuclear signaling, and they serve as targets for the small GTP binding proteins Cdc42 and Rac. This specific family member regulates cell motility and morphology. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2010]
Cellular Location	Cytoplasm. Cell junction > focal adhesion. Recruited to focal adhesions upon activation.

Validation Images



Western Blot - Anti-PAK1 Rabbit mAb [41M74L14]
All lanes: R012623 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: Rat spleen whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 61 kDa
Observed band size: 68 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PAK1 Rabbit mAb [41M74L14]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R012623 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).