Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015436

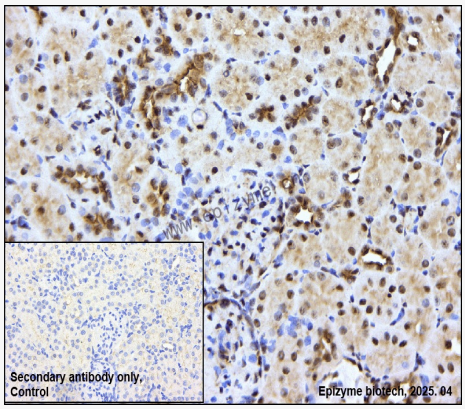
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	24P90Y33
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-PAK4 + PAK5 + PAK6 (S474 + S560 + S602)
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℃. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20℃ storage.
Precautions	Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33] is for research use only and not for use in diagnostic or therapeutic procedures.

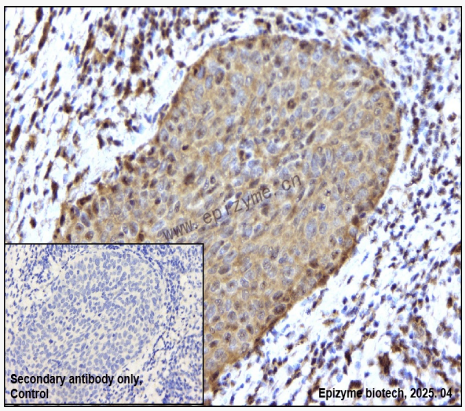
Protein Information

Synonyms	PAK4; PAK7; KIAA1142; KIAA126; p21-activated kinase 4; p21-activated kinase 5; p21-activated kinase 6; p21-activated kinase 7; PAK-4; PAK-5; PAK-6; PAK5; PAK6; Serine/threonine-protein kinase PAK 4; Serine/threonine-protein kinase PAK 6; Serine/threonine-protein kinase PAK 7.
Calculated MW	Calculated MW: 80 kDa; Observed MW: 80 kDa
Uniprot ID	O96013(PAK4-Antigen), Q9P286(PAK5), Q9NQU5(PAK6)
Gene ID	10298, 57144, 56924
Background	PAK proteins, a family of serine/threonine p21-activating kinases, include PAK1, PAK2, PAK3 and PAK4. PAK proteins are critical effectors that link Rho GTPases to cytoskeleton reorganization and nuclear signaling. They serve as targets for the small GTP binding proteins Cdc42 and Rac and have been implicated in a wide range of biological activities. PAK4 interacts specifically with the GTP-bound form of Cdc42Hs and weakly activates the JNK family of MAP kinases. PAK4 is a mediator of filopodia formation and may play a role in the reorganization of the actin cytoskeleton. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008].
Cellular Location	Cytoplasm. Note: Seems to shuttle between cytoplasmic compartments depending on the activating

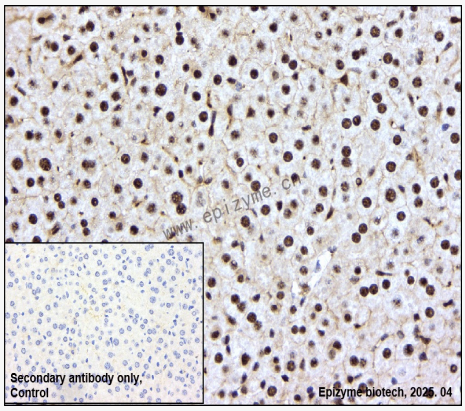
Validation Images



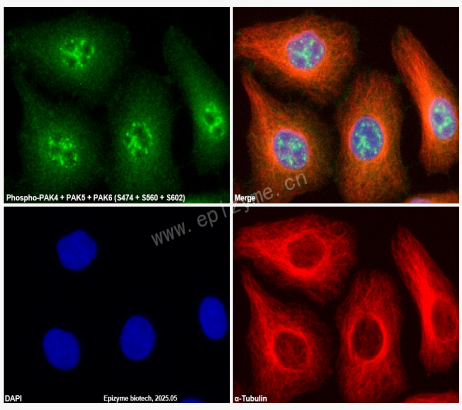
Immunohistochemistry - Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33]
Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015436 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



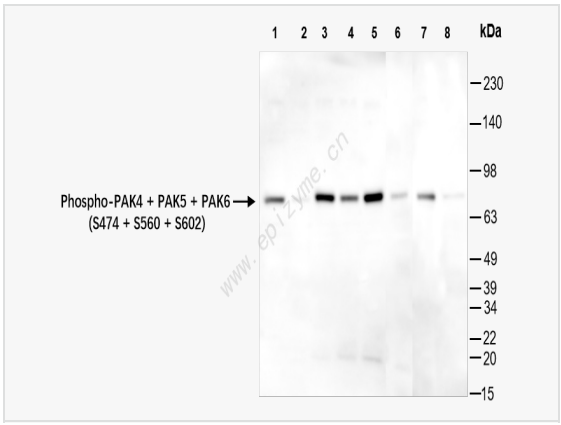
Immunohistochemistry - Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015436 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse liver tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015436 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33]
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: R015436 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).



Western Blot - Anti-Phospho-PAK4/5/6 (Ser474/Ser560/Ser602) Rabbit mAb [24P90Y33]
All lanes: R015436 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: Huh1 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
Lane 6: Mouse brain whole tissue lysates
Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 8: Rat heart 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: 80 kDa
Observed band size: 80 kDa
Developed using the ECL technique (Cat. No. SQ201).