

Anti-Phospho-PAK4 (Ser99) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse, Rabbit (predicted: Rat, Chicken, Dog, Cow, Horse)
Molecular Weight:	Theoretical: 64 kDa. Actual: 64 kDa.
Purification:	Protein A purified

Applications

1. Sample: HeLa (Human) Cell Lysate at 30 µg
Primary: Anti-Phospho-PAK4 (Ser99) (TMAB-11108) at 1/500 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kD
Observed band size: 64 kD
 2. phosphopeptide
non phosphopeptide
 3. Tissue/cell: human prostate tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;
Incubation: Anti-Phospho-PAK4 (Ser99) Polyclonal Antibody, Unconjugated (TMAB-11108) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
 4. Sample: 293T (Human) Cell Lysate at 30 µg
Primary: Anti-Phospho-PAK4 (Ser99) (TMAB-11108) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kD
Observed band size: 64 kD
 5. Blank control (black line): NIH/3T3.
Primary Antibody (green line): Rabbit Anti-Phospho-PAK4 (Ser99) antibody (TMAB-11108)
Dilution: 1 µg/Test;
Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF488
Dilution: 0.5 µg/Test.
Isotype control (orange line): Normal Rabbit IgG
- Protocol
The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

Verified Activity:

A DRUG SCREENING EXPERT

Application: WB,IHC-P,IHC-Fr,IF,FCM,ELISA
Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test; ELISA: 1:5000-10000

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated Synthesised phosphopeptide: human PAK4 around the phosphorylation site of Ser99
Antigen Species: Human
Gene ID: 10298
Uniprot ID: O96013

Research Background

p21-activated kinases (PAKs) belong to the family of serine/threonine kinases involved in the control of various cellular processes, including the cell cycle, dynamics of the cytoskeleton, apoptosis, oncogenic transformation, and transcription. All PAK family members are characterized by the presence of p21-binding domain. p21-activated kinases are regulated by the small GTP-binding proteins Rac and Cdc42, and lipids, which stimulate autophosphorylation and phosphorylation of exogenous substrates. Serine (Ser-474) is the likely autophosphorylation site in the kinase domain of PAK4 in vivo. Phosphospecific antibodies directed against serine 474 detect activated PAK4 on the Golgi membrane when PAK4 is co-expressed with activated Cdc42. Current data strongly implicates PAK-4 in oncogenesis. PAK4 is frequently overexpressed in human tumor cell lines of various tissue origins.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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