10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-PAK4/5 Antibody
Catalog # AP54018

Specification

Anti-PAK4/5 Antibody - Product Information

Application	**WB, IF**
Primary Accession	O96013
Other Accession	Q9P286
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**64072**

Anti-PAK4/5 Antibody - Additional Information

Gene ID 10298

Other Names
KIAA1142; Serine/threonine-protein kinase PAK 4; p21-activated kinase 4; PAK-4

Target/Specificity
Recognizes endogenous levels of PAK4/5 protein.

Dilution
WB~~1/500 - 1/1000
IF~~1/100 - 1/500

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-PAK4/5 Antibody - Protein Information

Name PAK4

Synonyms KIAA1142

Function
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. 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.

Cellular Location
Cytoplasm. Note=Seems to shuttle between cytoplasmic compartments depending on the activating effector. For example, can be found on the cell periphery after activation of growth-factor or integrin-mediated signaling pathways.

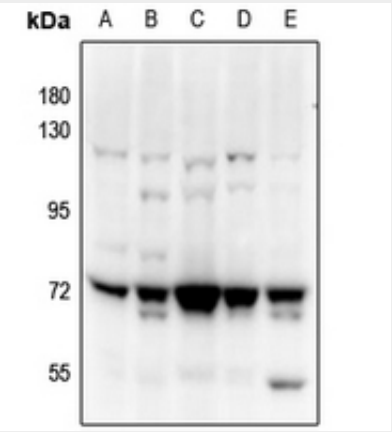
Tissue Location
Highest expression in prostate, testis and colon.

Anti-PAK4/5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-PAK4/5 Antibody - Images



Western blot analysis of PAK4/5 expression in C6 (A), CT26 (B), A2780 (C), HCT116 (D), PC3 (E) whole cell lysates.

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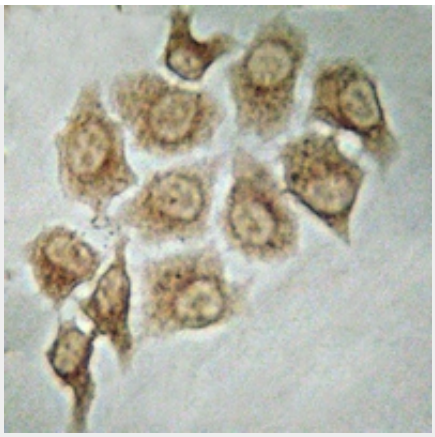

Immunocytochemistry analysis of PAK4/5 staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a HRP-conjugated secondary antibody in PBS at room temperature. DAB was used as the chromogen.

Anti-PAK4/5 Antibody - Background

Rabbit polyclonal antibody to PAK4/5