

Phospho-Rac1+Cdc42(Ser71) Rabbit mAb

Catalog No: #13425

Package Size: #13425-1 50ul #13425-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

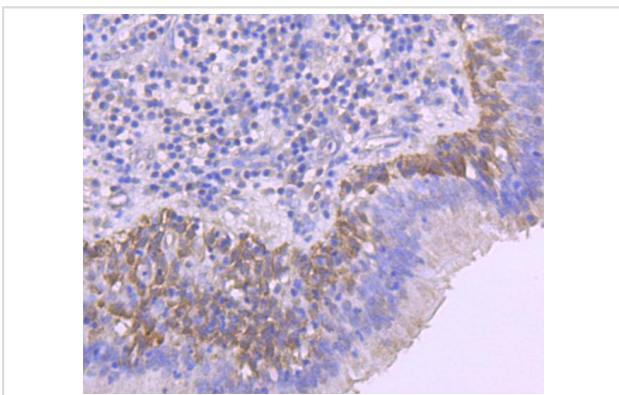
Description

Product Name	Phospho-Rac1+Cdc42(Ser71) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	JJ086-9
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Hu
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Ser71 of human CDC42.
Other Names	CDC42Hs antibody Cell division cycle 42 antibody G25K antibody MIG5 antibody Migration inducing gene 5 antibody p21 Rac1 antibody Ras like protein TC25 antibody Small GTP binding protein Cdc42 antibody TC25 antibody
Accession No.	Swiss-Prot#:P60953
Uniprot	P60953
GeneID	998;
Calculated MW	23/21 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

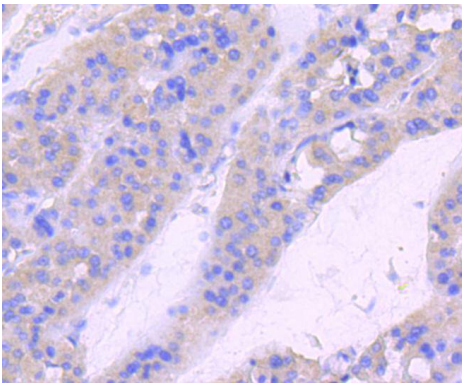
Application Details

WB: 1:500-1:1,000 IHC: 1:50-1:200 ICC: 1:50-1:200

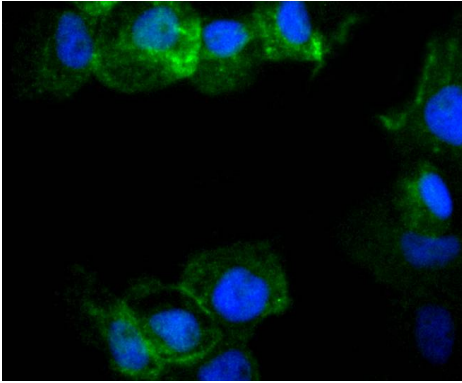
Images



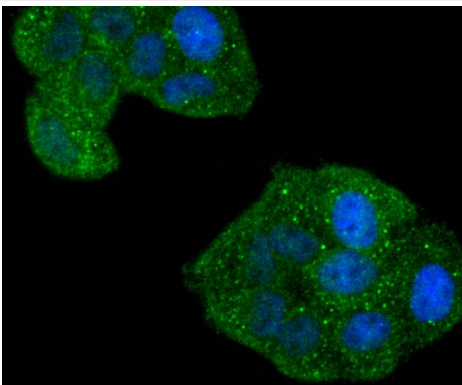
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Phospho-Rac1+Cdc42(Ser71) antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue using anti-Phospho-Rac1+Cdc42(Ser71) antibody. Counter stained with hematoxylin.



ICC staining Phospho-Rac1+Cdc42(Ser71) in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Phospho-Rac1+Cdc42(Ser71) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

A large number of low molecular weight GTP-binding proteins of the Ras superfamily have been identified in eukaryotic cells; they regulate many fundamental processes such as cell growth, vesicle traffic and cytoskeletal organization. GTPase-activating proteins accelerate the intrinsic rate of GTP hydrolysis of Ras-related proteins, resulting in downregulation of their active form. Rac 1 is activated in a type I interferon (IFN) dependent manner; its function is required for downstream engagement of the p38 MAP kinase pathway. The p38 MAP kinase plays an essential role in IFN-dependent transcriptional regulation. The serine/threonine kinase Akt, of the phospho-inositide 3-kinase signal transduction pathway phosphorylates serine 71 of Rac 1. The superfamily of GTP-binding proteins, for which the Ras proteins are prototypes, has been implicated in regulation of diverse biological activities involving various aspects of cell growth and division. One mammalian member of the family, Cdc42, has an amino acid sequence that is similar to those of various members of the Ras superfamily proteins, including N-, K- and H-Ras, Rho proteins and the Rac proteins. On the basis of in vitro phosphorylation studies, it has been suggested that human Cdc42 may function in the signaling pathway of the EGF receptor or related growth factor receptor protein kinases. The Dbl oncogene has been shown to specifically catalyze dissociation of GDP from human Cdc42.

References

Note: This product is for in vitro research use only