

Rac1/Cdc42(Phospho-Ser71) Rabbit mAb

Catalog No: #13425

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

Description

Product Name	Rac1/Cdc42(Phospho-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.
Conjugates	Unconjugated
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
Calculated MW	Predicted band size: 21 kDa
SDS-PAGE MW	Observed band size: 23 kDa
Formulation	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

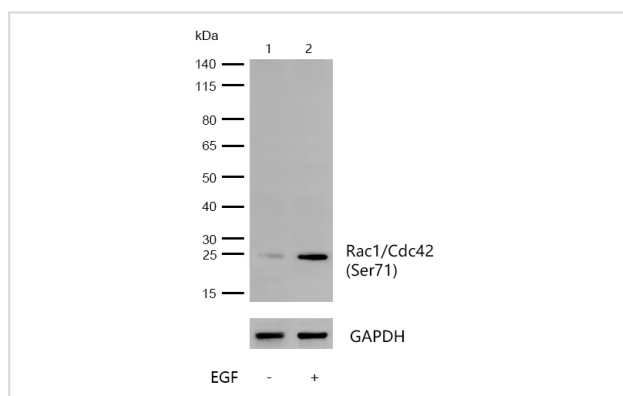
Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

IHC: 1:50-1:200

Images



All lanes : Rac1/Cdc42(Phospho-Ser71) Rabbit mAb at 1/1k dilution

Lane 1 : A431 whole cell lysates

Lane 2 : A431 treated with 100ng/mL EGF for 30 minutes whole cell lysates

Lysates/proteins at 20 µg per lane.

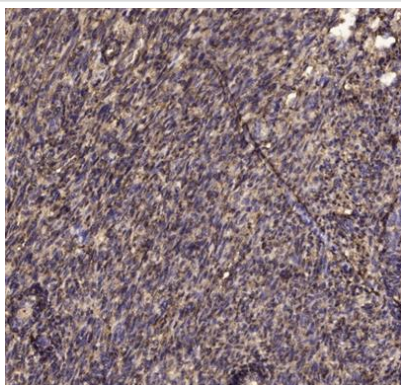
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

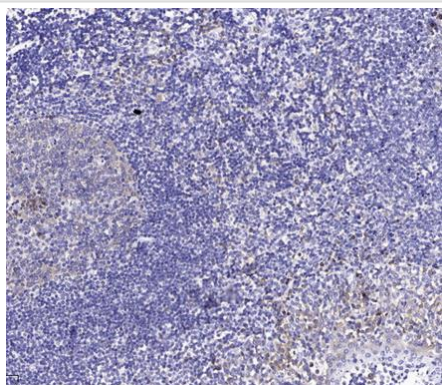
Predicted band size: 21 kDa

Observed band size: 23 kDa

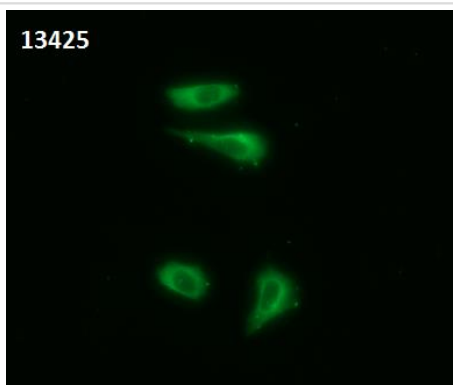
Exposure time: 10 seconds



Formalin-fixed, paraffin-embedded human uterus tissue stained for Rac1/Cdc42 (Phospho-Ser71) using 13425 at 1/100 dilution in immunohistochemical analysis.



Formalin-fixed, paraffin-embedded human tonsil tissue stained for Rac1/Cdc42 (Phospho-Ser71) using 13425 at 1/100 dilution in immunohistochemical analysis.



Immunocytochemistry/ Immunofluorescence Rac1/Cdc42 (Phospho-Ser71) antibody (13425)
ICC/IF staining of Rac1/Cdc42(Phospho-Ser71) in Hela cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 13425 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit, used at a dilution of 1/500.

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 and is not intended for use in humans or animals.