Product Description

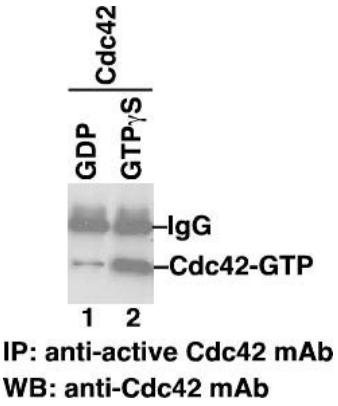
Pioneering GTPase and Oncogene Product Development since 2010

Cdc42-GTP

Catalog Number: 26905
Gene Symbol: CDC42
Description: Anti-Cdc42-GTP Mouse Monoclonal Antibody

Background: Small GTPases are a super-familyof cellular signaling regulators. Cdc42 belongs to the Rho sub-family of GTPases that regulate cell motility, cell division, and gene transcription. GTP binding increases the activity of Cdc42, and the hydrolysis of GTP to GDP renders it inactive. GTP hydrolysis is aided by GTPase activating proteins (GAPs), while exchange of GDP for GTP is facilitated by guanine nucleotide exchange factors (GEFs).
Immunogen: Recombinant full length protein of active Cdc42
Tested applications: IP, IHC
Recommended Dilutions:
1 µg for 1~2 mg total cellular proteins
Concentration: 1 mg/ml
Host: Mouse
Clonality: Monoclonal
Isotype: IgG
Purity: Purified from ascites
Format: Liquid
Preservative: No
Constituents: PBS (without Mg^{2+} and Ca^{2+}), pH7.4, 150 mM NaCl, 50% glycerol
Species Reactivity: Anti-Cdc42-GTP antibody only recognizes active Cdc42 from vertebrates.
Storage Conditions: Store at -20°C.Avoid freeze / thaw cycles.

Immunoprecipitation/Western blot:



Cdc42 Activation Assay.

Purified recombinant Cdc42 proteins were loaded with GDP (lane 1) or GTPγS (lane 2). These proteins were immunoprecipitated with anti-Cdc42-GTP mouse monoclonal antibody (Cat. # 26905). After SDS/PAGE, the membrane filter was probed with anti-Cdc42 mouse monoclonal antibody (Cat. # 26008

Immunofluorescence:

NewEast Biosciences
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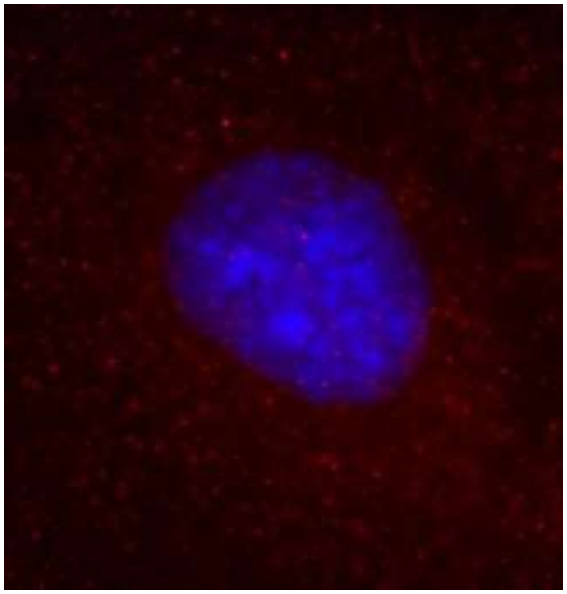

Immunofluorescent labeling of Cdc42-GTP in MS1 mouse endothelial cells. The MS1 cells cultured on glass coverslips (Fisher) in DMEM containing 5% FBS were fixed with 4% paraformaldehyde for 10 minutes at RT (room temperature) and permeabilized in PBSN (PBS+0.1%NP40) for 15 minutes at RT. The cells were stained with primary antibody (Cdc42-GTP) at 1:25 dilution in Invitrogen's CAS-BLOCK (00-8120) reagent at RT for 1 hour. After brief washing in PBSN (3x5min), a secondary Alexa555 conjugated goat anti mouse antibody (Invitrogen A21424) was applied in 1:200 in CAS-BLOCK at RT for 1 hour. The coverslips were then washed in PBSN (3x5min) and mounted using vectorsheld's hard set mounting medium (H-1500), and examined using a Zeiss inverted fluorescence microscope.

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