ARG67231
anti-CDC42 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes CDC42
Tested Reactivity	Hu, Ms, Rat, Drosophila
Tested Application	ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Target Name	CDC42
Conjugation	Un-conjugated
Alternate Names	CDC42; Cell Division Cycle 42; CDC42Hs; G25K; Cell Division Control Protein 42 Homolog; GTP Binding Protein, 25kDa; G25K GTP-Binding Protein; DJ224A6.1.1 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); DJ224A6.1.2 (Cell Division Cycle 42 (GTP-Binding Protein, 25kD)); Cell Division Cycle 42 (GTP Binding Protein, 25kDa); Cell Division Cycle 42 (GTP-Binding Protein, 25kD); Small GTP Binding Protein CDC42; Growth-Regulating Protein; EC 3.6.5.2; TKS

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100 - 1:200
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

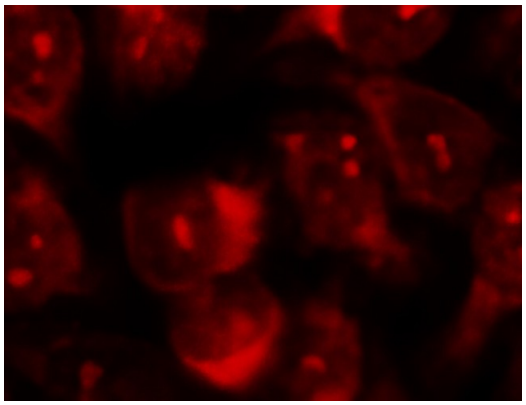
Properties

Form	Liquid
Purification	Affinity purified
Buffer	PBS (pH 7.0), 0.025% ProClin 300 and 20% Glycerol.
Preservative	0.025% ProClin 300
Stabilizer	20% Glycerol
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CDC42
Gene Full Name	Cell Division Cycle 42
Background	The protein encoded by this gene is a small GTPase of the Rho-subfamily, which regulates signaling pathways that control diverse cellular functions including cell morphology, migration, endocytosis and cell cycle progression. This protein is highly similar to Saccharomyces cerevisiae Cdc 42, and is able to complement the yeast cdc42-1 mutant. The product of oncogene Dbl was reported to specifically catalyze the dissociation of GDP from this protein. This protein could regulate actin polymerization through its direct binding to Neural Wiskott-Aldrich syndrome protein (N-WASP), which subsequently activates Arp2/3 complex. Alternative splicing of this gene results in multiple transcript variants. Pseudogenes of this gene have been identified on chromosomes 3, 4, 5, 7, 8 and 20. [provided by RefSeq, Apr 2013]
Function	Upon activation by PLEKHG4B, involved in actin cytoskeletal remodeling during epithelial cell-cell junction formation. [Uniprot]
Calculated Mw	22 kDa
PTM	Glycoprotein, Lipoprotein, Methylation, Phosphoprotein, Prenylation. [Uniprot]
Cellular Localization	Cell membrane, Cell projection, Cytoplasm, Cytoskeleton, Membrane. [Uniprot]

Images



ARG67231 anti-CDC42 antibody ICC/IF image

Immunofluorescence: HeLa stained with ARG67231 anti-CDC42 antibody at 1:200 dilution.

ARG67231 anti-CDC42 antibody WB image

Western blot: HepG2 stained with ARG67231 anti-CDC42 antibody at 1:1000 dilution.

ARG67231 anti-CDC42 antibody WB image

Western blot: NIH 3T3 stained with ARG67231 anti-CDC42 antibody at 1:1000 dilution.