

Mouse anti-Human CDC42 Monoclonal Antibody | anti-CDC42 antibody

CDC42 Mouse mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62315	Mouse	Human	Flow Cytometry, Functional Assay, Immunoprecipitation, Western Blot

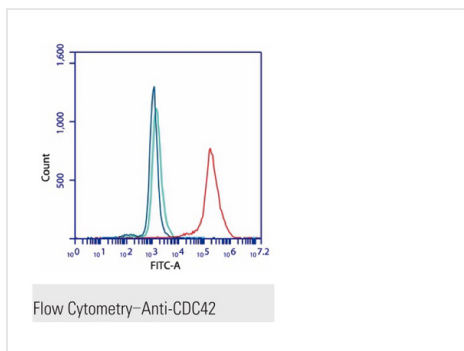
PRODUCT SYNONYMS

CDC42; Monoclonal Antibody; CDC42 Mouse mAb; Cell division control protein 42 homolog; Cell migration-inducing gene 5 protein; dJ224A6.1.1 (cell division cycle 42 (GTP-binding protein; 25kD)); dJ224A6.1.2 (cell division cycle 42 (GTP-binding protein; G25K GTP-binding protein; growth-regulating protein; GTP binding protein; 25kDa; p21-Rac1; Ras-like protein TC25; Ras-related C3 botulinum toxin substrate 1; small GTP binding protein CDC42; CDC42Hs; G25K; MIG5; Rac-1; RAC1; TC-25; TC25; TKS; anti-CDC42 antibody

PRODUCT SPECIFICATIONS

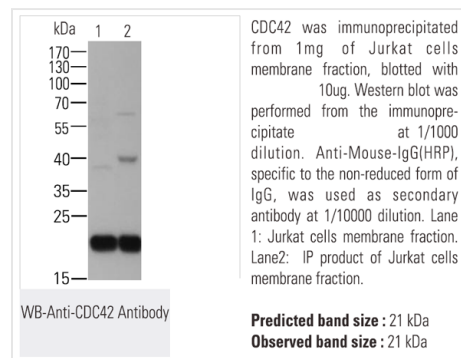
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Sequence Length	191
Applicable Applications for anti-CDC42 antibody	FCM/FACS (Flow Cytometry), IP (Immunoprecipitation), WB (Western Blot)
Source Note	This monoclonal antibody is produced by immunizing mice with a sythetic peptide(KLH coupled)corresponding to amino-terminal residues of human CDC42
Preparation and Storage	Store at -20 degree C. Stable for one year from the date of shipment.

IMAGES



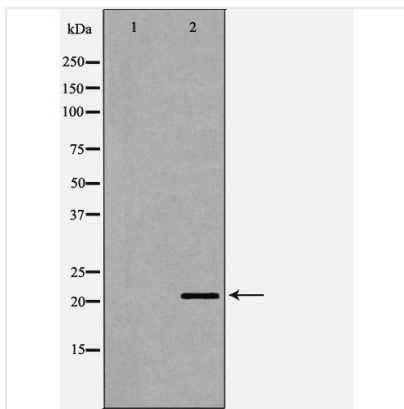
FCM/FACS (Flow Cytometry)

Flow cytometric analysis of 2% paraformaldehyde-fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling CDC42 with M25067 at 1/200 dilution (red) compared with a mouse monoclonal IgG isotype control (blue) and an unlabelled control (cells without incubation with primary antibody, green). Goat anti-mouse IgG (FITC) at 1/300 dilution was used as the secondary antibody.



IP (Immunoprecipitation)

CDC42 was immunoprecipitated from 1mg of Jurkat cells membrane fraction, blotted with M25067 of 10 ug. Western blot was performed from the immunoprecipitate using M25067 at 1/1000 dilution. Anti-Mouse-IgG(HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/10000 dilution. Lane 1: Jurkat cells membrane fraction. Lane2: IP product of Jurkat cells membrane fraction. Predicted band size : 21 kDa Observed band size : 21 kDa Blocking and dilution buffer and concentration: 5% milk/TBST.



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-CDC42 antibody	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 <i>Saccharomyces cerevisiae</i> Cdc 42, and is able to complement the yeast <i>cdc42-1</i> mutant. The product of oncogene <i>Dbl</i> 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.
Product Categories/Family for anti-CDC42 antibody	Cell Marker; Subcellular Marker; Membrane

NCBI AND UNIPROT INFORMATION

NCBI GI #	89903012
NCBI GeneID	998
NCBI Accession #	NP_001034891.1
NCBI GenBank Nucleotide #	NM_001039802.1
UniProt Accession #	P60953; P21181; P25763; Q7L8R5; Q9UDI2
Molecular Weight	Predicted MW: 21kDa
NCBI Official Full Name	cell division control protein 42 homolog isoform 1
NCBI Official Synonym Full Names	cell division cycle 42
NCBI Official Symbol	CDC42
NCBI Official Synonym Symbols	TKS; G25K; CDC42Hs
NCBI Protein Information	cell division control protein 42 homolog
UniProt Protein Name	Cell division control protein 42 homolog
UniProt Gene Name	CDC42

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.