

Mouse Cdc42 Monoclonal Antibody | anti-Cdc42 antibody

Cdc42 M430 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71597	Mouse	Human, Rat, Mouse	Immunocytochemistry, ELISA, Western Blot

PRODUCT SYNONYMS

Cdc42; Monoclonal Antibody; Cdc42 M430 Antibody; Cdc42 M430; anti-Cdc42 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse
Clonality	Monoclonal
Isotype	IgM
Clone Number	M430
Specificity	The antibody detects a 21kDa* protein in human Jurkat cells, rat A7r5 cells, and mouse brain. The antibody also detects recombinant full length rat Cdc42 fusion protein, but does not recognize a full length human RhoA GST fusion protein.
Purity/Purification	Affinity Chromatography
Form/Format	Mouse monoclonal antibody purified with affinity chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-Cdc42 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (M430) was generated from a rat recombinant Cdc42 protein. This sequence is highly conserved in human and mouse Cdc42.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



ICC (Immunocytochemistry)

Immunocytochemical labeling in paraformaldehyde fixed and NP-40 permeabilized rat A7r5 cells. The cells were labeled with mouse monoclonal Anti-Cdc42 (CM4301) in the absence (Left) or presence of full length Cdc42 recombinant protein (Right), then the antibody was detected using Goat anti-Mouse secondary antibody conjugated to DyLight 594.



WB (Western Blot)

Western blot analysis of endogenous Cdc42 in human jurkat cells (lane 1) and mouse brain (lane 2), as well as detection of a 52kDa rat Cdc42 full length recombinant fusion protein (lane 3). The blots were probed with anti-Cdc42 antibody (CM4301).

ADDITIONAL INFORMATION

Related Product Information for anti-Cdc42 antibody	Cdc42 proteins are Rho GTPase family members, which act as molecular switches in regulating a variety of biological response pathways including cell motility, cell-cycle progression, gene transcription, and cell transformation. Cdc42 GTPases regulate molecular events by cycling from the inactive GDP-bound state to active GTP-bound forms. The ratio of GDP versus GTP, which is bound to the GTPase, is determined by the opposing effects of guanine nucleotide exchange factors and GTPase activating proteins. Active (GTP-bound) Cdc42 binds to the p21-binding domain of p21-activated protein kinase 1 (PAK1) to regulate downstream signaling cascades.
References	Erickson, J.W. & Cerione, R.A. (2001) Curr. Opin. Cell. Biol. 13(2):153. Munemitsu, S. et al. (1990) Mol. Cell. Biol. 10:5977. Shinjo, K. et al. (1990) PNAS (USA) 87:9853.

NCBI AND UNIPROT INFORMATION

NCBI GI #	61889112
NCBI GeneID	64465
NCBI Accession #	NP_741991.3
NCBI GenBank Nucleotide #	NM_171994.4
UniProt Accession #	Q8CFN2; Q6P9Y3; Q71TW5
Molecular Weight	21,259 Da
NCBI Official Full Name	cell division control protein 42 homolog
NCBI Official Synonym Full Names	cell division cycle 42
NCBI Official Symbol	Cdc42
NCBI Protein Information	cell division control protein 42 homolog; cell division cycle 42 homolog; cell division cycle 42 (GTP binding protein)
UniProt Protein Name	Cell division control protein 42 homolog
UniProt Gene Name	Cdc42
UniProt Entry Name	CDC42_RAT

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.