

Cdc42

Mouse Monoclonal IgG1

Cat. # CM1521

Size 100 µl

Background

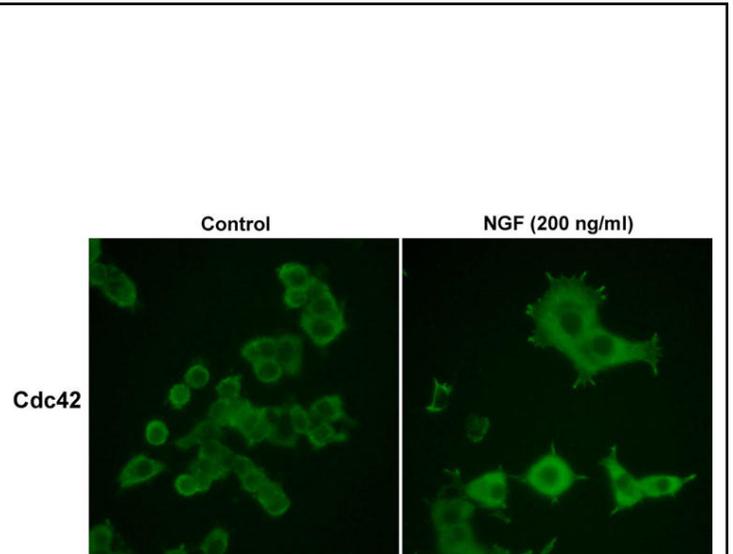
Cdc42 proteins are Rho GTPase family members, which act as molecular switches in regulating a variety of biological response pathways including cell motility, cell-cycle progression, gene transcription, and cell transformation. Cdc42 GTPases regulate molecular events by cycling from the inactive GDP-bound 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.

Background References

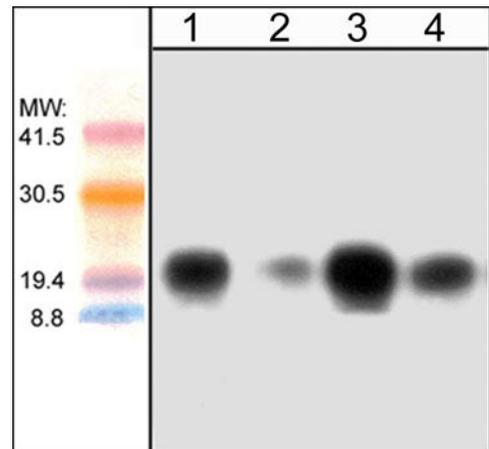
- Munemitsu, S. et al. (1990) Mol. Cell. Biol. 10:5977.
Shinjo, K. et al. (1990) PNAS (USA) 87:9853.
Erickson, J.W. & Cerione, R.A. (2001) Curr. Opin. Cell. Biol. 13(2):153.

Product Citations

- Osma-Garcia, I.C. et al. (2015) Eur J Immunol. doi: 10.1002
WB: mouse macrophages



Immunocytochemical labeling in rat PC12 cells grown for 4 days on poly-D-lysine-coated plates in the presence (200 ng/ml) or absence (Control) of Nerve Growth Factor (NGF). Anti-Cdc42 (CM1521) was used at 1:50 dilution followed by labeling with donkey anti-mouse: Cy2.



Western blot analysis of human jurkat cells (lanes 1 & 2) and mouse brain (lanes 3 & 4). The blots were probed with anti-Cdc42 antibody at 1:125 (lanes 1 & 3) or 1:500 (lanes 2 & 4).

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Immunogen

Clone (M152) was generated from a rat recombinant Cdc42 protein. This sequence is highly conserved in human and mouse Cdc42.

Buffer and Storage

Mouse monoclonal antibody purified with protein A chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications

WB	1:500
ELISA	1:2000
ICC	1:50

Species Reactivity

Hu, Rt, Ms

End user should determine optimal dilution for their particular applications and experiments.

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, Tris buffer, 0.04% Tween20 for 1 hour at room temperature.

Abbreviations: E = ELISA, ICC = immunocytochemistry, IHC = immunohistochemistry, IP = immunoprecipitation, MS = mass spectrometry, WB = western blot
Hu = Human, Ms = Mouse, Rt = Rat, Ck = Chicken, F = Frog, B = Bovine

Specificity

The antibody detects a 21 kDa* protein in human Jurkat cells and mouse brain. It does not recognize a human RhoA GST fusion protein.

*All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW.

"Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.

Related Products

RP1361 RhoA (Ser-188), phospho-specific Rabbit Polyclonal

RX1365 phospho-RhoA (Ser-188) Blocking Peptide

RP1501 Rho (Central region) Rabbit Polyclonal

RM3371 Ras Mouse Monoclonal

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