
anti-Cdc42

Cat #: HM1082
Mouse monoclonal IgG
0.2 µg/µl

For research use only

BACKGROUND

Cdc42 is a member of small RhoGTPase family that binds and hydrolyzes GTP. Proteins of this family regulate diverse biological activities involving various aspects of cell growth and division. Cdc42 represents the human homolog of the *Saccharomyces cerevisiae* cell division protein, Cdc42Sc. Cdc42 can be activated by phosphorylation (e.g. by Akt). Phosphorylation of Cdc42 regulates its GTP binding and GTPase activity. After activation Cdc 42 can bind and activate PAK 1, which in turn activates downstream signaling proteins including MEKK 1 and JNK.

SPECIFICITY

This antibody reacts with Cdc42 of mouse, rat and human origin. It does not react with Rac 1 or other Ras superfamily GTP binding proteins. It can be used in Western blotting, immunoprecipitation and immunohistochemistry.

Molecular weight of Cdc42 is 25 kDa. Western blotting positive control: HeLa cell lysate.

IMMUNOGEN

This mouse monoclonal antibody is raised against a recombinant protein corresponding to the full-length human Cdc42.

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCE

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