

Cdc42 (h): 293T Lysate: sc-110467

BACKGROUND

The superfamily of GTP-binding proteins, for which the Ras proteins are prototypes, has been implicated in regulation of diverse biological activities involving various aspects of cell growth and division. One member of the family, Cdc42Hs (originally referred to as Gp or G25K), appears to represent the human homolog of the *Saccharomyces cerevisiae* cell division protein, Cdc42Sc. The predicted amino acid sequence of human Cdc42 is very similar to those of various members of the Ras superfamily proteins including N-, K- and H-Ras proteins (30-35% identical), Rho proteins (50% identical) and the Rac proteins (70% identical). On the basis of *in vitro* phosphorylation studies, it has been suggested that human Cdc42 may function in the signaling pathway of the EGF receptor or related growth factor receptor protein kinases. The Dbl oncogene has been shown to specifically catalyze dissociation of GDP from human Cdc42Hs.

REFERENCES

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STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

CHROMOSOMAL LOCATION

Genetic locus: CDC42 (human) mapping to 1p36.12.

PRODUCT

Cdc42 (h): 293T Lysate represents a lysate of human Cdc42 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Cdc42 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Cdc42 antibodies.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

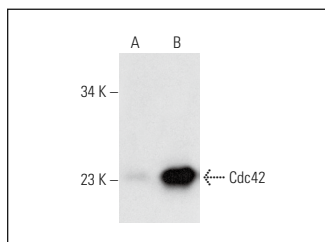
Cdc42 (B-8): sc-8401 is recommended as a positive control antibody for Western Blot analysis of enhanced human Cdc42 expression in Cdc42 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Cdc42 (B-8): sc-8401. Western blot analysis of Cdc42 expression in non-transfected: sc-117752 (A) and human Cdc42 transfected: sc-110467 (B) 293T whole cell lysates.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.