

# Rho D (h): 293 Lysate: sc-110628

## BACKGROUND

Upon activation, the small GTPase Rho D (also designated RhoHP1 and ARHD) contributes to rearrangement of the Actin cytoskeleton and cell surface and also governs endosome motility and distribution. The effects of Rho D antagonize those of its family member, Rho A, by disassembling Actin stress fibers normally enhanced by Rho A. Additionally, Rho D disengages focal adhesions, resulting in retardation of cell migration. Accordingly, transfection of a constitutively active form of Rho D (designated Rho D G26V) reverses the invasive phenotype of  $G_{\alpha_{olf}}$  induced cells, implying the possibility of a therapeutic use for activated Rho D in counteracting tumor metastasis.

## REFERENCES

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5. Shimizu, F., Watanabe, T.K., Okuno, S., Omori, Y., Fujiwara, T., Takahashi, E. and Nakamura, Y. 1997. Isolation of a novel human cDNA (RhoHP1) homologous to Rho genes. *Biochim. Biophys. Acta* 1351: 13-16.
6. Tsubakimoto, K., Matsumoto, K., Abe, H., Ishii, J., Amano, M., Kaibuchi, K. and Endo, T. 1999. Small GTPase RhoD suppresses cell migration and cytokinesis. *Oncogene* 18: 2431-2440.

## CHROMOSOMAL LOCATION

Genetic locus: RHOD (human) mapping to 11q13.2.

## PRODUCT

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

## APPLICATIONS

Rho D (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive Rho D antibodies. Recommended use: 10-20 µl per lane.

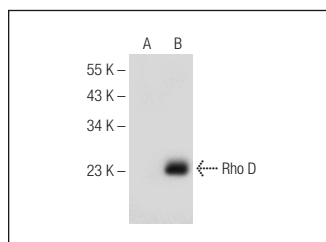
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

Rho D (H-1): sc-376340 is recommended as a positive control antibody for Western Blot analysis of enhanced human Rho D expression in Rho D transfected 293 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



Rho D (H-1): sc-376340. Western blot analysis of Rho D expression in non-transfected: sc-110760 (A) and human Rho D transfected: sc-110628 (B) 293 whole cell lysates.

## 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.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.