

# Rhotekin (H-252): sc-366207

## BACKGROUND

Rho, the Ras-related small GTPase, is responsible for the regulation of actin-based cytoskeletal structures including stress fibers, focal adhesions and the contractile ring apparatus. Rho proteins function as molecular switches that are able to turn cytokinesis on and off. Although little is known about signaling downstream of Rho, a host of putative Rho effector proteins have been described, including rhotekin, citron and the serine/threonine kinase, protein kinase N. Two additional Rho-activated serine/threonine kinases have been described, designated Rock-1 and Rock-2 (also referred to as Roka) for Rho-associated coil-containing protein kinase. Rock-1 and Rock-2 share a structural similarity with myotonic dystrophy kinase.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: RTKN (human) mapping to 2p13.1; Rtkn (mouse) mapping to 6 C3.

## SOURCE

Rhotekin (H-252) is a rabbit polyclonal antibody raised against amino acids 216-467 mapping within an internal region of Rhotekin of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Rhotekin (H-252) is recommended for detection of Rhotekin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Rhotekin (H-252) is also recommended for detection of Rhotekin in additional species, including equine, canine and bovine.

Suitable for use as control antibody for Rhotekin siRNA (h): sc-39223, Rhotekin siRNA (m): sc-39224, Rhotekin shRNA Plasmid (h): sc-39223-SH, Rhotekin shRNA Plasmid (m): sc-39224-SH, Rhotekin shRNA (h) Lentiviral Particles: sc-39223-V and Rhotekin shRNA (m) Lentiviral Particles: sc-39224-V.

Molecular Weight of Rhotekin: 62 kDa.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

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



Try **Rhotekin (B-4): sc-393833** or **Rhotekin (AA-18): sc-100426**, our highly recommended monoclonal alternatives to Rhotekin (H-252).