Rhotekin (B-4): sc-393833

**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 hophilin, 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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

Rhotekin (B-4) is a mouse monoclonal antibody raised against amino acids 216-467 mapping within an internal region of Rhotekin of human origin.

**PRODUCT**

Each vial contains 200 µg IgGκ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Rhotekin (B-4) is available conjugated to agaroase (sc-393833 AC), 500 µg/0.25 ml agarose in 1 ml, for IP, to HRP (sc-393833 HRP), 200 µg/ml, for WB, HCP and ELISA; to either phycoerythrin (sc-393833 PE), fluorescein (sc-393833 FITC), Alexa Fluor® 488 (sc-393833 AF488), Alexa Fluor® 546 (sc-393833 AF546), Alexa Fluor® 594 (sc-393833 AF594) or Alexa Fluor® 647 (sc-393833 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FC; and to either Alexa Fluor® 680 (sc-393833 AF680) or Alexa Fluor® 790 (sc-393833 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

**APPLICATIONS**

Rhotekin (B-4) is recommended for detection of Rhotekin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).


Molecular Weight of Rhotekin: 62 kDa.

Positive Controls: Rhotekin (h): 293T lysate: sc-112761, A-431 whole cell lysate: sc-2201 or Jurkat whole cell lysate: sc-2204.

**RECOMMENDED SUPPORT REAGENTS**

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


**DATA**

**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.

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