PRK2 (A-3): sc-271971

**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 rhophilin, Rhotein, citron and the serine/threonine kinase, protein kinase N. Several related Rho-binding proteins have been identified, including the serine/threonine kinases PRK2 (PKC-related kinase 2, also designated PAK-2).

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: PKN2 (human) mapping to 1p22.2; Pkn2 (mouse) mapping to 3 H1.

**SOURCE**

PRK2 (A-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 949-978 at the C-terminus of PRK2 of human origin.

**PRODUCT**

Each vial contains 200 μg IgG2a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

PRK2 (A-3) is available conjugated to agarose (sc-271971 AC), 500 μg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271971 HRP), 200 μg/ml, for WB, IHC(P) and ELISA; to either phycocyanin (sc-271971 PE), fluorescent (sc-271971 FITC), Alexa Fluor® 488 (sc-271971 AF488), Alexa Fluor® 546 (sc-271971 AF546), Alexa Fluor® 594 (sc-271971 AF594) or Alexa Fluor® 647 (sc-271971 AF647, 200 μg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-271971 AF680) or Alexa Fluor® 790 (sc-271971 AF790), 200 μg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-271971 P (100 μg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

PRK2 (A-3) is recommended for detection of PRK2 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PRK2 (A-3) is also recommended for detection of PRK2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PRK2 siRNA (h): sc-39219, PRK2 siRNA (m): sc-39220, PRK2 shRNA Plasmid (h): sc-39219-SH, PRK2 shRNA Plasmid (m): sc-39220-SH, PRK2 shRNA (h) Lentiviral Particles: sc-39219-V and PRK2 shRNA (m) Lentiviral Particles: sc-39220-V.

Molecular Weight of PRK2: 130 kDa.

Positive Controls: PC-3 cell lysate: sc-2220, K-562 whole cell lysate: sc-2203 or NIH/3T3 whole cell lysate: sc-2210.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

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

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