

POR1 (D-19): sc-9800

BACKGROUND

POR1 (also designated arfapin 2) was first isolated as a Rac 1 binding protein necessary for Rac mediated Actin polymerization and the subsequent formation of membrane ruffles and lamellipodia. POR1 has also been shown to interact with the ADP ribosylation factor ARF6, a GTPase that associates with the plasma membrane and intracellular endosome vesicles, in a GTP dependent manner. The association of POR1 with ARF6 stimulates induction of Actin polymerization. POR1 appears to play a regulatory role through multiple signaling pathways in the reorganization of the cytoskeletal structure.

REFERENCES

1. Van Aelst, L., Joneson, T. and Bar-Sagi, D. 1996. Identification of a novel Rac 1-interacting protein involved in membrane ruffling. *EMBO J.* 15: 3778-3786.
2. Joneson, T., McDonough, M., Bar-Sagi, D. and Van Aelst, L. 1996. RAC regulation of Actin polymerization and proliferation by a pathway distinct from Jun kinase. *Science* 274: 1374-1376.

CHROMOSOMAL LOCATION

Genetic locus: ARFIP2 (human) mapping to 11p15.4; Arfip2 (mouse) mapping to 7 E3.

SOURCE

POR1 (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of POR1 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.

Blocking peptide available for competition studies, sc-9800 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

POR1 (D-19) is recommended for detection of POR1 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).

POR1 (D-19) is also recommended for detection of POR1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for POR1 siRNA (h): sc-41192, POR1 siRNA (m): sc-41193, POR1 shRNA Plasmid (h): sc-41192-SH, POR1 shRNA Plasmid (m): sc-41193-SH, POR1 shRNA (h) Lentiviral Particles: sc-41192-V and POR1 shRNA (m) Lentiviral Particles: sc-41193-V.

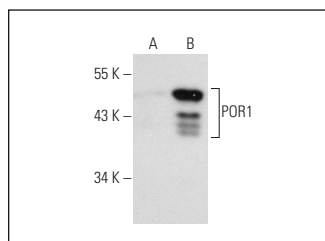
Molecular Weight of POR1: 33 kDa.

Positive Controls: POR1 (h): 293T Lysate: sc-171384, HeLa whole cell lysate: sc-2200 or IMR-32 cell lysate: sc-2409.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



POR1 (D-19): sc-9800. Western blot analysis of POR1 expression in non-transfected: sc-117752 (A) and human POR1 transfected: sc-171384 (B) 293T whole cell lysates.

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.

PROTOCOLS

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


 MONOS
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Try **POR1 (E-3): sc-271478**, our highly recommended monoclonal alternative to POR1 (D-19).