



POR1 (m): 293T Lysate: sc-127368

BACKGROUND

POR1 (also designated arfap2) 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

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5. Gauthier-Rouviere, C., Vignal, E., Meriane, M., Roux, P., Montcourier, P. and Fort, P. 1998. Rho G GTPase controls a pathway that independently activates Rac 1 and Cdc42Hs. *Mol. Biol. Cell* 9: 1379-1394.
6. Radhakrishna, H., Al-Awar, O., Khachikian, Z. and Donaldson, J.G. 1999. ARF6 requirement for Rac ruffling suggests a role for membrane trafficking in cortical Actin rearrangements. *J. Cell Sci.* 112: 855-866.

CHROMOSOMAL LOCATION

Genetic locus: Arfip2 (mouse) mapping to 7 E3.

PRODUCT

POR1 (m): 293T Lysate represents a lysate of mouse POR1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

POR1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive POR1 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

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 for detailed protocols and support products.