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ARF1 (m): 293T Lysate: sc-124985

BACKGROUND

ADP-ribosylation factors (ARFs), are small guanine nucleotide-binding proteins that enhance the enzymatic activities of cholera toxin and constitute one family of the RAS superfamily. ARFs are essential and ubiquitous in eukaryotes, as they are involved in vesicular transport and functioning via phospholipase D activation. ARF proteins play a role in membrane traffic and organelle integrity and are intimately tied to their reversible association with membranes and distinct interactions with membrane phospholipids. ARF1 is regulated by the binding and hydrolysis of GTP. Coatamer, or COPI, is a heptameric protein recruited to membranes by ARF1. Research demonstrates that guanine nucleotide exchange-activated ARF1, when located at the Golgi membrane, recruits and binds cytoplasmic COPI to the membranes.

REFERENCES

- Bobak, D.A., et al. 1989. Molecular cloning, characterization, and expression of human ADP-ribosylation factors: two guanine nucleotide-dependent activators of cholera toxin. *Proc. Natl. Acad. Sci. USA* 86: 6101-6105.
- Peng, Z.G., et al. 1989. Molecular cloning, sequence analysis and mRNA expression of human ADP-ribosylation factor. *Biofactors* 2: 45-49.
- Lee, C.M., et al. 1992. Characterization of the human gene encoding ADP-ribosylation factor 1, a guanine nucleotide-binding activator of cholera toxin. *J. Biol. Chem.* 267: 9028-9034.
- Amor, J.C., et al. 1995. Structure of the human ADP-ribosylation factor 1 complexed with GDP. *Nature* 372: 704-708.
- Hirai, M., et al. 1997. Assignment of human ADP ribosylation factor (ARF) genes ARF1 and ARF3 to chromosomes 1q42 and 12q13, respectively. *Genomics* 34: 263-265.
- Mossessova, E., et al. 1998. Structure of the guanine nucleotide exchange factor Sec7 domain of human ARNO and analysis of the interaction with ARF GTPase. *Cell* 92: 415-423.
- Presley, J.F., et al. 2002. Dissection of COPI and ARF1 dynamics *in vivo* and role in Golgi membrane transport. *Nature* 417: 187-193.
- Renault, L., et al. 2003. Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor. *Nature* 426: 525-530.
- Online Mendelian Inheritance in Man, OMIM™. 2005. Johns Hopkins University, Baltimore, MD. MIM Number: 103180. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: Arf1 (mouse) mapping to 11 B1.3.

PRODUCT

ARF1 (m): 293T Lysate represents a lysate of mouse ARF1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

ARF1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ARF1 antibodies. Recommended use: 10-20 µl per lane.

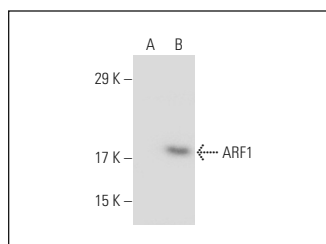
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ARF1 (ARFS 1A9/5): sc-53168 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ARF1 expression in ARF1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ARF1 (ARFS 1A9/5): sc-53168. Western blot analysis of ARF1 expression in non-transfected: sc-117752 (A) and mouse ARF1 transfected: sc-124985 (B) 293T whole cell lysates.

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.