**BACKGROUND**

ADP-ribosylation factors (ARFs) are highly conserved guanine nucleotide-binding proteins that enhance the ADP-ribosyltransferase activity of cholera toxin. ARFs may also participate in vesicular transport in both exocytic and endocytic pathways. ARL1 is a member of the ARF-like protein (ARL) subfamily of small GTPases. On subcellular fractionation, ARL1, similar to ARF1, localizes to the soluble fraction. ARL1 associates with the trans side of the Golgi apparatus, where it aids in the regulation of membrane traffic as well as the structure and function of the Golgi apparatus. In addition, the yeast Arl11 gene plays an important role in the formation of central vacuoles and in the progression of programmed cell death induced by cell-cycle arrest or Bax.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ARL1 (human) mapping to 12q23.2; Arl1 (mouse) mapping to 10C1.

**SOURCE**

ARL1 (B-2) is a mouse monoclonal antibody raised against amino acids 128-181 mapping at the C-terminus of ARL1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ARL1 (B-2) is available conjugated to agarose (sc-393785 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393785 HRP), 200 µg/ml, for 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).

Suitable for use as control antibody for ARL1 siRNA (h): sc-106957, ARL1 siRNA (m): sc-141235, ARL1 shRNA Plasmid (h): sc-106957-SH, ARL1 shRNA Plasmid (m): sc-141235-SH, ARL1 shRNA (h) Lentiviral Particles: sc-106957-V and ARL1 shRNA (m) Lentiviral Particles: sc-141235-V.

**APPLICATIONS**

ARL1 (B-2) is recommended for detection of ARL1 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).

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

1) Western Blotting: use m-IgG kappa BP-HRP: sc-516102 or m-IgG kappa B P-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-2048.2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**DATA**

ARL1 (B-2) sc-393785. Western blot analysis of ARL1 expression in Hep G2 (A), HeLa (B), RT-4 (C) and U-251-MG (D) whole cell lysates.

**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.

**PROTOCOLS**

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