

ARL9 (N-13): sc-104068

BACKGROUND

ADP-ribosylation factors (ARFs) are highly conserved guanine nucleotide binding proteins that enhance the ADP-ribosyltransferase activity of cholera toxin. ARFs are important in eukaryotic vesicular trafficking pathways, and they play an essential role in the activation of phospholipase D (PC-PLD). ARL9 (ADP-ribosylation factor-like protein 9) is a 187 amino acid protein that belongs to the RAS superfamily of regulatory GTPases. ARL9 contains a conserved interswitch toggle that places it evolutionarily closer to the Arf family. The gene encoding ARL9 maps to chromosome 4q12 in humans and 5 C3.3 in mouse.

REFERENCES

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3. Louro, R., Nakaya, H.I., Paquola, A.C., Martins, E.A., da Silva, A.M., Verjovski-Almeida, S. and Reis, E.M. 2004. RASL11A, member of a novel small monomeric GTPase gene family, is down-regulated in prostate tumors. *Biochem. Biophys. Res. Commun.* 316: 618-627.
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5. Kahn, R.A., Volpicelli-Daley, L., Bowzard, B., Shrivastava-Ranjan, P., Li, Y., Zhou, C. and Cunningham, L. 2005. Arf family GTPases: roles in membrane traffic and microtubule dynamics. *Biochem. Soc. Trans.* 33, Pt 6: 1269-1272.

CHROMOSOMAL LOCATION

Genetic locus: ARL9 (human) mapping to 4q12; Arl9 (mouse) mapping to 5 C3.3.

SOURCE

ARL9 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of ARL9 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-104068 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

ARL9 (N-13) is recommended for detection of ARL9 of human and, to a lesser extent, mouse 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); non cross-reactive with other ARL family members.

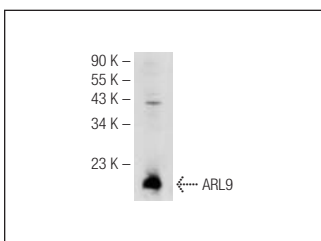
Suitable for use as control antibody for ARL9 siRNA (h): sc-89011, ARL9 siRNA (m): sc-105089, ARL9 shRNA Plasmid (h): sc-89011-SH, ARL9 shRNA Plasmid (m): sc-105089-SH, ARL9 shRNA (h) Lentiviral Particles: sc-89011-V and ARL9 shRNA (m) Lentiviral Particles: sc-105089-V.

Molecular Weight of ARL9: 21 kDa.

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



ARL9 (N-13): sc-104068. Western blot analysis of ARL9 expression in mouse testes tissue extract.

PROTOCOLS

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