ARL5A (G-9): sc-514680

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). ARL5 (ADP-ribosylation factor-like protein 5), also known as ARLF5 or ARL5A, is a 179 amino acid member of the ARF protein family. Unlike many ARF family members, ARL5 is thought to lack ADP-ribosylation enhancing activity. Localized to the nucleus, ARL5A has been found to interact with HP1α, indicating that it is developmentally regulated and has a possible role in nuclear dynamics and embryonic development signaling cascades.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: ARL5A (human) mapping to 2q23.3; Arl5a (mouse) mapping to 2 C1.1.

SOURCE
ARL5A (G-9) is a mouse monoclonal antibody raised against amino acids 92-179 mapping at the C-terminus of ARL5A 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.

ARL5A (G-9) is available conjugated to agarose (sc-514680 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514680 HRP), 200 µg/ml, for WB, IHC/IP and ELISA; to either phycocerythrin (sc-514680 PE), fluorescein (sc-514680 FITC), Alexa Fluor® 488 (sc-514680 AF488), Alexa Fluor® 546 (sc-514680 AF546), Alexa Fluor® 594 (sc-514680 AF594) or Alexa Fluor® 647 (sc-514680 AF647), 200 µg/ml, for WB (RGB), IF, IHC/IP and FCM; and to either Alexa Fluor® 680 (sc-514680 AF680) or Alexa Fluor® 790 (sc-514680 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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RESEARCH USE
For research use only, not for use in diagnostic procedures.

APPLICATIONS
ARL5A (G-9) is recommended for detection of ARL5A 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).

Suitable for use as control antibody for ARL5A siRNA (h): sc-94309, ARL5A siRNA (m): sc-141244, ARL5A shRNA Plasmid (h): sc-94309-SH, ARL5A shRNA Plasmid (m): sc-141244-SH, ARL5A shRNA (h) Lentiviral Particles: sc-94309-V and ARL5A shRNA (m) Lentiviral Particles: sc-141244-V.

Molecular Weight (predicted) of ARL5A: 21 kDa.

Molecular Weight (observed) of ARL5A: 27 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, IMR-32 cell lysate: sc-2409 or THP-1 cell lysate: sc-2238.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG HRP, sc-516214 or m-IgG 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 Luminal Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3) Immunofluorescence: use m-IgG HRP, sc-516214 or THP-1 cell lysate: sc-2238.

DATA
ARL5A (G-9): sc-514680. Western blot analysis of ARL5A expression in K-562 (A), IMR-32 (B), THP-1 (C), 3T3-L1 (D), U87 (E) and BY207 (F) 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.