

ARL13B (D-10): sc-515832

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). ARL13B (ADP-ribosylation factor-like 13B), also known as ARL2L1 or JBTS8, is a 428 amino acid protein that belongs to the ARL subfamily of ARF-like GTPases and is thought to be involved in cilia formation. Defects in the gene encoding ARL13B are associated with Joubert syndrome (JS), a rare genetic disorder of the brain that is characterized by an underdeveloped cerebellum and brain stem and often leads to ataxia, abnormal breathing and seizures.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ARL13B (human) mapping to 3q11.1.

SOURCE

ARL13B (D-10) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 410-428 at the C-terminus of ARL13B of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ARL13B (D-10) is recommended for detection of ARL13B of 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 ARL13B siRNA (h): sc-78165, ARL13B shRNA Plasmid (h): sc-78165-SH and ARL13B shRNA (h) Lentiviral Particles: sc-78165-V.

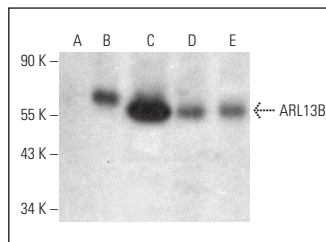
Molecular Weight of ARL13B: 49 kDa.

Positive Controls: ARL13B (h): 293T Lysate: sc-369564, HeLa whole cell lysate: sc-2200 or human eye extract: sc-364223.

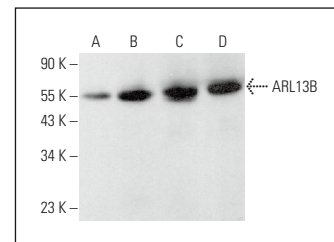
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



ARL13B (D-10): sc-515832. Western blot analysis of ARL13B expression in non-transfected 293T: sc-117752 (A), human ARL13B transfected 293T: sc-369564 (B) and HeLa (C) whole cell lysates and human adrenal gland (D) and human eye (E) tissue extracts.



ARL13B (D-10): sc-515832. Western blot analysis of ARL13B expression in HeLa (A), SJRH30 (B), PANC-1 (C) and A549 (D) whole cell lysates.

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.