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- Trockeneiszuschlag
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- Expressversand

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ARL4D (m): 293T Lysate: sc-124995

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 activating phospholipase D. ARL4D (ADP-ribosylation factor-like 4D), also known as ARL6 or ARF4L, is a 201 amino acid nuclear protein that is a member of the ADP-ribosylation factor family of GTP-binding proteins. ARL4D may play a role in membrane-associated intracellular trafficking and may promote ARF6 activation and modulate Actin remodeling by regulating ARNO. It is suggested that mutations of ARL4D is associated with Bardet-Biedl syndrome.

REFERENCES

- Smith, S.A., et al. 1995. Isolation and mapping of a gene encoding a novel human ADP-ribosylation factor on chromosome 17q12-q21. *Genomics* 28: 113-115.
- Katayama, T., et al. 1998. Expression of an ADP-ribosylation factor like gene, ARF4L, is induced after transient forebrain ischemia in the gerbil. *Brain Res. Mol. Brain Res.* 56: 66-75.
- Lin, C.Y., et al. 2000. ARL4, an ARF-like protein that is developmentally regulated and localized to nuclei and nucleoli. *J. Biol. Chem.* 275: 37815-37823.
- Nonaka, Y., et al. 2002. Recognition of ADP-ribosylation factor 4-like by HLA-A2-restricted and tumor-reactive cytotoxic T lymphocytes from patients with brain tumors. *Tissue Antigens* 60: 319-327.
- Katayama, T., et al. 2004. Role of ARF4L in recycling between endosomes and the plasma membrane. *Cell. Mol. Neurobiol.* 24: 137-147.
- Hofmann, I., et al. 2007. The ARL4 family of small G proteins can recruit the cytohesin ARF6 exchange factors to the plasma membrane. *Curr. Biol.* 17: 711-716.
- Li, C.C., et al. 2007. ARL4D recruits cytohesin-2/ARNO to modulate Actin remodeling. *Mol. Biol. Cell* 18: 4420-4437.
- Alme, M.N., et al. 2007. Chronic fluoxetine treatment induces brain region-specific upregulation of genes associated with BDNF-induced long-term potentiation. *Neural Plast.* 2007: 26496.

CHROMOSOMAL LOCATION

Genetic locus: *Arl4d* (mouse) mapping to 11 D.

PRODUCT

ARL4D (m): 293T Lysate represents a lysate of mouse ARL4D 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.

RESEARCH USE

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

APPLICATIONS

ARL4D (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ARL4D antibodies. Recommended use: 10-20 µl per lane.

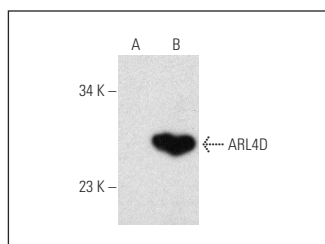
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ARL4D (H-2): sc-271274 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse ARL4D expression in ARL4D transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

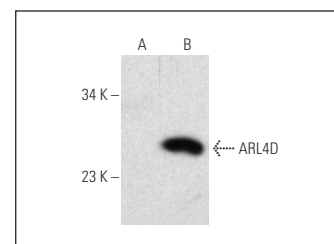
RECOMMENDED SUPPORT REAGENTS

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



ARL4D (H-2): sc-271274. Western blot analysis of ARL4D expression in non-transfected: sc-117752 (A) and mouse ARL4D transfected: sc-124995 (B) 293T whole cell lysates.



ARL4D (F-2): sc-271273. Western blot analysis of ARL4D expression in non-transfected: sc-117752 (A) and mouse ARL4D transfected: sc-124995 (B) 293T whole cell lysates.

PROTOCOLS

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