SANTA CRUZ BIOTECHNOLOGY, INC.

ARV1 (E-14): sc-162544



Die America Countries

BACKGROUND

ARV1 (ARV1 homolog), also known as hARV1, is a 271 amino acid multi-pass membrane protein that belongs to the ARV1 family. ARV1 contains an N-terminal ARV1 homology domain (AHD), which encompasses a zinc-binding motif and a transmembrane domain, and five central and C-terminal transmembrane domains. Encoded by a gene that maps to human chromosome 1q42.2, ARV1 is conserved in chimpanzee, canine, bovine, mouse, rat, chicken, zebrafish and *Caenorhabditis elegans*, and shares 44% amino acid identity with its yeast homolog. ARV1 plays a role in sphingolipid metabolism, with overexpression likely suppressing lipid metabolic defects. ARV1 may assist with ceramide transport between endoplasmic reticulum and Golgi apparatus, and may also function as a sterol homeostasis mediator.

REFERENCES

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- 3. Wilcox, L.J., et al. 2002. Transcriptional profiling identifies two members of the ATP-binding cassette transporter superfamily required for sterol uptake in yeast. J. Biol. Chem. 277: 32466-32472.
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- Schneiter, R. 2007. Intracellular sterol transport in eukaryotes, a connection to mitochondrial function? Biochimie 89: 255-259.
- Kajiwara, K., et al. 2008. Yeast ARV1 is required for efficient delivery of an early GPI intermediate to the first mannosyltransferase during GPI assembly and controls lipid flow from the endoplasmic reticulum. Mol. Biol. Cell 19: 2069-2082.
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 J. Biol. Chem. 285: 33632-33641.

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 or our catalog for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: Arv1 (mouse) mapping to 8 E2.

SOURCE

ARV1 (E-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ARV1 of mouse origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162544 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARV1 (E-14) is recommended for detection of ARV1 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 ARV1 siRNA (m): sc-141281, ARV1 shRNA Plasmid (m): sc-141281-SH and ARV1 shRNA (m) Lentiviral Particles: sc-141281-V.

Molecular Weight of ARV1: 31 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat lgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat lgG-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) Immunofluorescence: use donkey anti-goat lgG-FITC: sc-2024 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

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