SANTA CRUZ BIOTECHNOLOGY, INC.

Sar1a (m): 293T Lysate: sc-123353

BACKGROUND

There are a number of components involved in the secretory pathway of cells. Vesicular traffic within the early secretory pathway is mediated by COPI- and COPII-coated vesicles. The COPII vesicle coat protein promotes the formation of endoplasmic reticulum (ER) derived transport vesicles that carry secretory proteins to the Golgi complex. The Sar1 gene encodes two isoforms, Sar1a and Sar1b, in mammalian cells. These proteins are low molecular weight GTPases, which are essential for the formation of transport vesicles from the ER. Mutations in the Sar1 gene result in Anderson's disease (and/or chylomicron retention disease CMRD), a rare, autosomal recessive lipid malabsorption disorder characterized by chronic diarrhea, failure to thrive and hypocholesterolemia in childhood.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Sar1a (mouse) mapping to 10 B4.

PRODUCT

Sar1a (m): 293T Lysate represents a lysate of mouse Sar1a transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

Sar1a (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Sar1a antibodies. Recommended use: 10-20 µl per lane.

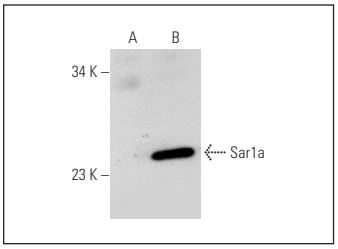
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Sar1a (K-44): sc-130463 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Sar1a expression in Sar1a 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



Sar1a (K-44): sc-130463. Western blot analysis of Sar1a expression in non-transfected: sc-117752 (**A**) and mouse Sar1a transfected: sc-123353 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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