SANTA CRUZ BIOTECHNOLOGY, INC.

Tafazzin (h3): 293T Lysate: sc-111062

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The Power to Question

BACKGROUND

Tafazzin protein is a single-pass membrane protein that is abundant in cardiac and skeletal muscle, where it influences mitochondrial structure. There are various isoforms associated with Tafazzin, most of which are ubiquitous. Isoforms with hydrophobic N-terminal domains are membrane anchored, whereas the short isoforms that lack a hydrophobic leader sequence may exist as cytoplasmic proteins. The isoforms that lack the N-terminal domain are not found in cardiac or skeletal muscle, rather, they are located in fibroblasts and leukocytes. Mutations in the Tafazzin gene are associated with various diseases, including dilated cardiomyopathy (DCM), hypertrophic DCM, endocardial fibroelastosis, left ventricular noncompaction (LVNC) and Barth syndrome (BTHS), a severe inherited disorder marked by neutropenia, cardiac and skeletal myopathy, and short stature.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TAZ (human) mapping to Xq28.

PRODUCT

Tafazzin (h3): 293T Lysate represents a lysate of human Tafazzin transfected 293 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.

APPLICATIONS

Tafazzin (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive Tafazzin antibodies. Recommended use: 10-20 µl per lane.

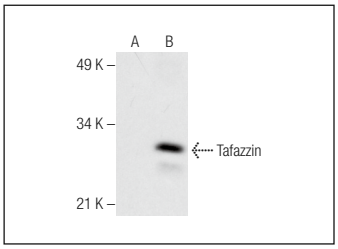
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-tranfected 293 cells.

Tafazzin (E-3): sc-377434 is recommended as a positive control antibody for Western Blot analysis of enhanced human Tafazzin expression in Tafazzin transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

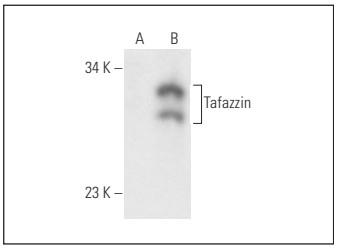
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGλ BP-HRP: sc-516132 or m-IgGλ BP-HRP (Cruz Marker): sc-516132-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



Tafazzin (E-3): sc-377434. Western blot analysis of Tafazzin expression in non-transfected: sc-110760 (**A**) and human Tafazzin transfected: sc-111062 (**B**) 293 whole cell lysates.



Tafazzin (F-7): sc-365810. Western blot analysis of Tafazzin expression in non-transfected: sc-110760 (**A**) and human Tafazzin transfected: sc-111062 (**B**) 293 whole cell lysates.

RESEARCH USE

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

PROTOCOLS

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