

MRRF (h2): 293 Lysate: sc-113108

BACKGROUND

The termination of protein synthesis is carried out by a variety of auxiliary factors that ensure the proper release of newly formed proteins. Once translation is complete, mRNA and P-site deacylated tRNA remain attached to the ribosome in a post-termination complex (post-TC) that must be dissociated and recycled in order for another round of translation to take place. MRRF (mitochondrial ribosome recycling factor), also known as RRF, MRFF or MTRRF, is a 262 amino acid protein that belongs to the RRF (ribosome recycling factor) family. Localized to mitochondria, MRRF is required for the release of ribosomes from mRNA at the end of protein biosynthesis. Via its ability to recycle ribosomes throughout translation, MRRF may actually increase overall translational efficiency, thereby playing an important role in the rate of protein synthesis. Multiple isoforms of MRRF are expressed due to alternative splicing events.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: MRRF (human) mapping to 9q33.2.

PRODUCT

MRRF (h2): 293 Lysate represents a lysate of human MRRF transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MRRF (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive MRRF antibodies. Recommended use: 10-20 µl per lane.

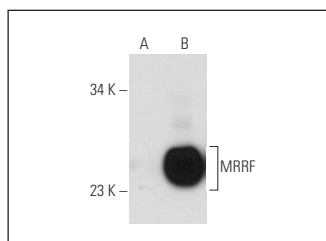
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

MRRF (J-07): sc-100969 is recommended as a positive control antibody for Western Blot analysis of enhanced human MRRF expression in MRRF 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-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



MRRF (J-07): sc-100969. Western blot analysis of MRRF expression in non-transfected: sc-110760 (A) and human MRRF transfected: sc-113108 (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.