

MRI1 (m2): 293T Lysate: sc-117928

BACKGROUND

MRI1 (methylthioribose-1-phosphate isomerase), also known as MTR-1-P isomerase, is a 369 amino acid enzyme belonging to the eIF2B $\alpha/\beta/\delta$ subunit family. MRI1 is involved in the amino-acid biosynthesis pathway, specifically the L-methionine biosynthesis via salvage pathway. MRI1 catalyzes the inter-conversion of methylthioribose-1-phosphate (MTR-1-P) into methylthioribulose-1-phosphate (MTRu-1-P). MRI1 is expressed as two isoforms produced by alternative splicing. The gene that encodes MRI1 maps to human chromosome 19, which consists of around 63 million bases with over 1,400 genes. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin superfamily members including the killer cell and leukocyte Ig-like receptors, a number of ICAMs, the CEACAM and PSG family, and Fc α receptors. Key genes for eye color and hair color also map to chromosome 19.

REFERENCES

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7. Grimwood, J., et al. 2004. The DNA sequence and biology of human chromosome 19. *Nature* 428: 529-535.
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CHROMOSOMAL LOCATION

Genetic locus: Mr1 (mouse) mapping to 8 C3.

PRODUCT

MRI1 (m2): 293T Lysate represents a lysate of mouse MRI1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l 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.

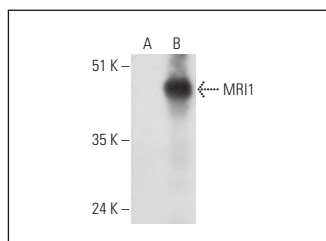
APPLICATIONS

MRI1 (m2): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive MRI1 antibodies. Recommended use: 10-20 μ l per lane.

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

MRI1 (E-10): sc-515384 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse MRI1 expression in MRI1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



MRI1 (E-10): sc-515384. Western blot analysis of MRI1 expression in non-transfected: sc-117752 (A) and mouse MRI1 transfected: sc-117928 (B) 293T 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.