

Myotrophin (h): 293T Lysate: sc-114795

BACKGROUND

Myotrophin (V-1 protein) is a ubiquitously expressed cytoplasmic protein that can translocate to the nucleus during sustained NF κ B activation. The gene encoding for this protein localizes to chromosome 7q33. Myotrophin may be involved in cerebellar morphogenesis and contains an acetylated N-terminus and 2.5 internal 33 amino acid ankyrin repeats. It is important in the differentiation of cerebellar neurons, particularly of granule cells. The 117 amino acid protein has been associated with, and able to induce, cardiac hypertrophy. Myotrophin increases protooncogene, ANF and β -Myosin heavy chain transcript levels. Myotrophin is upregulated when myocytes undergo cyclic stretch or are treated with tumor necrosis factor α (TNF α) or interleukin-1 β . Highest levels of Myotrophin are detected in brain and lowest levels in skeletal muscle.

VREFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MTPN (human) mapping to 7q33.

PRODUCT

Myotrophin (h): 293T Lysate represents a lysate of human Myotrophin transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

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

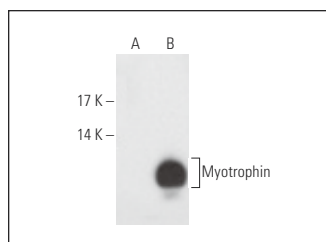
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Myotrophin (A-10): sc-166071 is recommended as a positive control antibody for Western Blot analysis of enhanced human Myotrophin expression in Myotrophin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

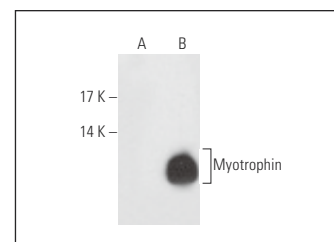
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



Myotrophin (A-10): sc-166071. Western blot analysis of Myotrophin expression in non-transfected: sc-117752 (A) and human Myotrophin transfected: sc-114795 (B) 293T whole cell lysates.



Myotrophin (D-3): sc-166072. Western blot analysis of Myotrophin expression in non-transfected: sc-117752 (A) and human Myotrophin transfected: sc-114795 (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.

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.