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Cofilin 2 (m): 293T Lysate: sc-119353

BACKGROUND

Cofilin 2, also known as CFL2 or Cofilin, muscle isoform, is a 166 amino acid protein that localizes to the cytoplasm and the cytoskeleton, as well as to the nuclear matrix, and contains one ADF-H domain. Existing as two alternatively spliced isoforms, one of which is known as CFL2 α and is expressed in heart and skeletal muscle, and the other of which is known as CFL2 β and is expressed ubiquitously, Cofilin 2 binds both F- and G-Actin and functions to control pH-dependent Actin polymerization and depolymerization. Cofilin 2 is subject to post-translational phosphorylation on Ser 24, an event which may prevent the nuclear localization of Cofilin 2. Defects in the gene encoding Cofilin 2 are the cause of nemaline myopathy type 7 (NEM7), a form of congenital myopathy that varies with age and is characterized by abnormal thread- or rod-like structures in muscle fibers.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cfl2 (mouse mapping to 12 C1).

PRODUCT

Cofilin 2 (m): 293T Lysate represents a lysate of mouse Cofilin 2 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

Cofilin 2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Cofilin 2 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.

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.