

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Myosin Ib (h): 293T Lysate: sc-116536



The Power to Question

BACKGROUND

Actin is a highly conserved protein that is expressed in all eukaryotic cells. Actin filaments can form both stable and labile structures and are crucial components of microvilli and the contractile apparatus of muscle cells. Troponin facilitates interaction between Actin and Myosin by binding to Ca²+. Troponin is made up of at least two subunits, which are divergent in cardiac muscle, fast skeletal muscle and slow skeletal muscle. Myosin is a hexamer of two heavy chains (MHC) and four light chains (MLC) that interact with Actin to generate the force for diverse cellular movements, including cyto-kinesis, phagocytosis and muscle contraction. Myosin lb (MYO1B), also designated Myosin l α or MYH-1c, is a motor protein that is involved in cell migration, neurite outgrowth and vesicular transport. In multivesicular endosomes, Myosin lb has been implicated in protein cargo traffic control.

REFERENCES

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- Takeda, T., et al. 2005. Role of fission yeast Myosin I in organization of sterol-rich membrane domains. Curr. Biol. 15: 1331-1336.
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CHROMOSOMAL LOCATION

Genetic locus: MYO1B (human) mapping to 2g32.3.

PRODUCT

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

APPLICATIONS

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

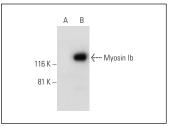
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Myosin lb (F-8): sc-393053 is recommended as a positive control antibody for Western Blot analysis of enhanced human Myosin lb expression in Myosin lb 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-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



Myosin lb (F-8): sc-393053. Western blot analysis of Myosin lb expression in non-transfected: sc-117752 (A) and human Myosin lb transfected: sc-116536 (B) 293T

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.

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