

MYL6B (h): 293 Lysate: sc-113030

BACKGROUND

MYL6B (myosin light chain 6B) is a heavy chain regulator found in smooth muscle and non-muscle Myosin complexes. Three general classes of Myosin have been cloned: smooth muscle myosins, striated muscle myosins and non-muscle myosins. Contractile activity in smooth muscle is regulated by the calcium/calmodulin-dependent phosphorylation of myosin light chain by myosin light chain kinase. Myosin heavy chains are encoded by the MYH gene family and have Actin-activated ATPase activity which generates the motor function of Myosin. Although it contains three of the EF-hand domains common to Actin and other Myosin regulating proteins, MYL6B does not bind calcium during contraction. It is primarily found in a hexamer consisting of four light chains and two heavy chains. It most commonly interacts with Myosin Va, an Actin based motor that can move in large steps. MYL6B is expressed in most tissues with neurons and smooth muscle tissue having the highest expression.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: MYL6B (human) mapping to 12q13.2.

PRODUCT

MYL6B (h): 293 Lysate represents a lysate of human MYL6B transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MYL6B (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive MYL6B antibodies. Recommended use: 10-20 µl per lane.

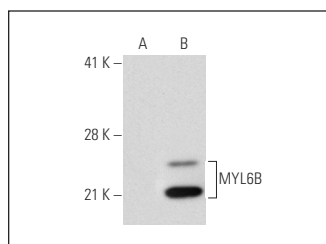
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

MYL6B (YY-06): sc-100951 is recommended as a positive control antibody for Western Blot analysis of enhanced human MYL6B expression in MYL6B 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



MYL6B (YY-06): sc-100951. Western blot analysis of MYL6B expression in non-transfected: sc-110760 (A) and human MYL6B transfected: sc-113030 (B) 293 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.