SANTA CRUZ BIOTECHNOLOGY, INC.

MYL6 (M-11): sc-109584



BACKGROUND

The EF-hand domain is a twelve amino acid loop motif that is commonly found in proteins that participate in calcium-binding events within the cell. EF-hand domains generally exist in a pair that, together, form a stable four-helix bundle that enables the binding of calcium ions. MYL6 (myosin, light chain 6, alkali, smooth muscle and non-muscle), also known as ESMLC, LC17A, LC17B or MLC1SM, is a 151 amino acid protein that contains three EF-hand domains and exists as two alternatively spliced isoforms, designated smooth muscle (MLC3SM) and non-muscle (MLC3NM). Existing as an alkali light chain component of the hexameric Myosin complex, MYL6 participates in generating the force for cellular movements, thereby playing an important role in overall cellular function. The gene encoding MYL6 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

REFERENCES

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STORAGE

Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

CHROMOSOMAL LOCATION

Genetic locus: Myl6 (mouse) mapping to 10 D3.

SOURCE

MYL6 (M-11) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of MYL6 of mouse origin.

PRODUCT

Each vial contains 200 μg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-109584 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

MYL6 (M-11) is recommended for detection of MYL6 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with MYL6B.

Suitable for use as control antibody for MYL6 siRNA (m): sc-149750, MYL6 shRNA Plasmid (m): sc-149750-SH and MYL6 shRNA (m) Lentiviral Particles: sc-149750-V.

Molecular Weight of MYL6: 17 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluo-rescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.