

**MLIP Antibody**  
**Catalog # ASC11441****Specification**

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**MLIP Antibody - Product Information**

|                   |                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | WB, IHC, IF                                                                                                                                                                                   |
| Primary Accession | <a href="#">Q5VWP3</a>                                                                                                                                                                        |
| Other Accession   | <a href="#">NP_612636</a> , <a href="#">154426278</a>                                                                                                                                         |
| Reactivity        | Human                                                                                                                                                                                         |
| Host              | Rabbit                                                                                                                                                                                        |
| Clonality         | Polyclonal                                                                                                                                                                                    |
| Isotype           | IgG                                                                                                                                                                                           |
| Application Notes | MLIP antibody can be used for detection of MLIP by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. |

**MLIP Antibody - Additional Information**Gene ID **90523****Target/Specificity**

MLIP; At least three isoforms of MLIP are known to exist.

**Reconstitution & Storage**

MLIP antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

MLIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**MLIP Antibody - Protein Information**Name MLIP ([HGNC:21355](#))**Function**

Required for myoblast differentiation into myotubes, possibly acting as a transcriptional regulator of the myogenic program (By similarity). Required for cardiac adaptation to stress through integrated regulation of the AKT/mTOR pathways and FOXO1. Regulates cardiac homeostasis and plays a role in the protection against cardiac hypertrophy (By similarity). Binds chromatin (By similarity). May act as a transcriptional cofactor for ISL1, repressing its transcriptional activity (By similarity). May also repress MYOCD transcriptional activity (By similarity).

**Cellular Location**

Nucleus. Nucleus envelope {ECO:0000250|UniProtKB:Q5FW52}. Nucleus, PML body {ECO:0000250|UniProtKB:Q5FW52}. Cytoplasm, cytosol. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:Q5FW52}; Peripheral membrane protein

{ECO:0000250|UniProtKB:Q5FW52}; Cytoplasmic side {ECO:0000250|UniProtKB:Q5FW52}

#### Tissue Location

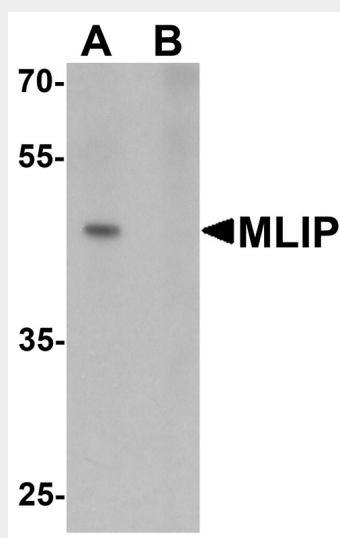
Predominantly expressed in the heart and skeletal muscle (PubMed:21498514, PubMed:26436652, PubMed:34581780). Also detected in liver (PubMed:21498514). [Isoform 3]: Expressed in skeletal muscle.

#### MLIP Antibody - Protocols

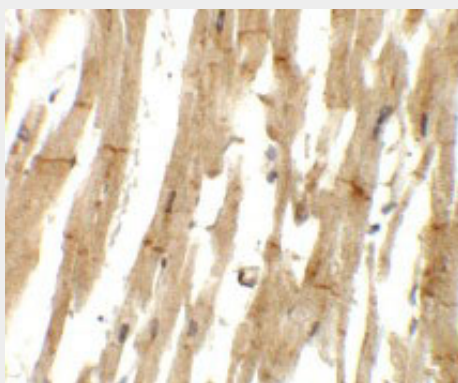
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

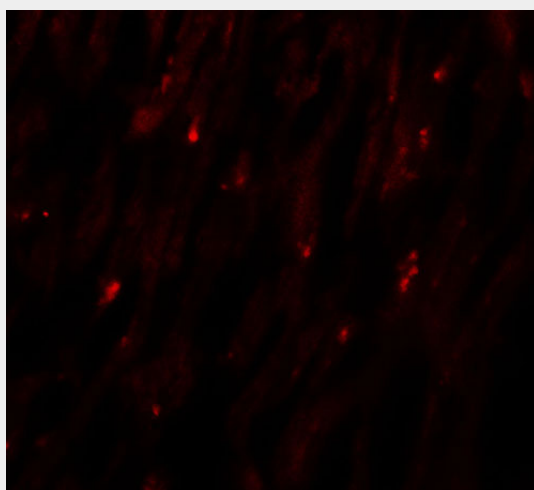
#### MLIP Antibody - Images



Western blot analysis of MLIP in 293 cell lysate with MLIP antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MLIP in human heart tissue with MLIP antibody at 5 µg/mL.



Immunofluorescence of MLIP in human heart tissue with MLIP antibody at 20 µg/mL.

#### **MLIP Antibody - Background**

**MLIP Antibody:** The muscle-enriched A-type lamin-interacting protein (MLIP) is ubiquitously expressed, although most predominantly in heart, skeletal and smooth muscle, and interacts directly and co-localizes with lamin A and C in the nuclear envelope. MLIP also co-localizes with promyelocytic leukemia (PML) bodies within the nucleus. Decreasing lamin A/C expression with siRNA results in the upregulation and mislocalization of MLIP, suggesting that MLIP localization to the nuclear envelope is dependent on the lamin proteins. It has been suggested that MLIP may function as a tethering protein linking LMNA to factors within the nuclear envelope of within PML bodies

#### **MLIP Antibody - References**

Ahmady E, Deeke SA, Rabaa S, et al. Identification of a novel muscle A-type lamin-interacting protein (MLIP). J. Biol. Chem. 2011; 286:19702-13.