

MLIP Antibody

Catalog # ASC11441

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q5VWP3
Other Accession	NP_612636 , 154426278
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	105914
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	MLIP antibody can be used for detection of MLIP by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	90523
Other Names	Muscular LMNA-interacting protein, Muscular-enriched A-type laminin-interacting protein, MLIP, C6orf142
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.

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.

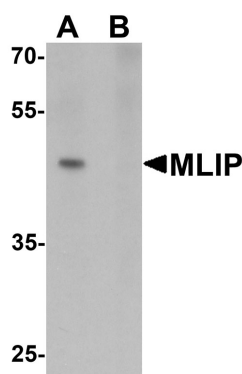
Background

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

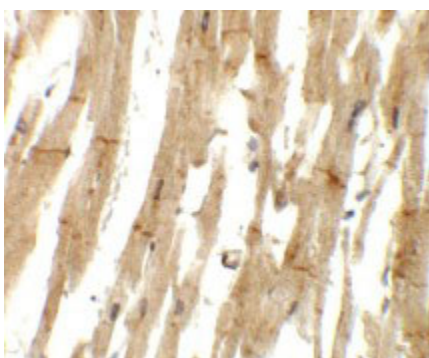
References

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.

Images

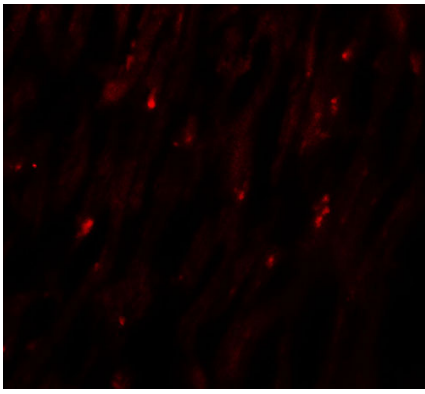


Western blot analysis of MLIP in 293 cell lysate with MLIP antibody at 1 $\mu\text{g}/\text{mL}$ in (A) the absence and (B) the presence of blocking peptide.



Immunohistochemistry of MLIP in human heart tissue with MLIP antibody at 5 $\mu\text{g}/\text{mL}$.

Immunofluorescence of MLIP in human heart tissue with MLIP antibody at 20 $\mu\text{g}/\text{mL}$.



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