

MURC Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5646a**Specification**

MURC Antibody (N-term) Blocking peptide - Product Information

Primary Accession [Q5BKX8](#)
Other Accession [NP_001018126.1](#)

MURC Antibody (N-term) Blocking peptide - Additional Information

Gene ID 347273

Other Names

Muscle-related coiled-coil protein, Muscle-restricted coiled-coil protein, MURC

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MURC Antibody (N-term) Blocking peptide - Protein Information

Name CAVIN4 ([HGNC:33742](#))

Synonyms MURC

Function

Modulates the morphology of formed caveolae in cardiomyocytes, but is not required for caveolar formation. Facilitates the recruitment of MAPK1/3 to caveolae within cardiomyocytes and regulates alpha-1 adrenergic receptor-induced hypertrophic responses in cardiomyocytes through MAPK1/3 activation. Contributes to proper membrane localization and stabilization of caveolin-3 (CAV3) in cardiomyocytes (By similarity). Induces RHOA activation and activates NPPA transcription and myofibrillar organization through the Rho/ROCK signaling pathway (PubMed:18332105).

Cellular Location

Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:A2AMM0}. Cytoplasm {ECO:0000250|UniProtKB:A2AMM0}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:A2AMM0}. Cell membrane, sarcolemma {ECO:0000250|UniProtKB:A2AMM0}. Membrane, caveola. Cell membrane. Note=In cardiomyocytes, accumulates in the Z-line of the sarcomere. In vascular smooth muscle cells, detected diffusely throughout the cytoplasm. Localizes in the caveolae in a caveolin-dependent manner. {ECO:0000250|UniProtKB:A2AMM0}

MURC Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

MURC Antibody (N-term) Blocking peptide - Images**MURC Antibody (N-term) Blocking peptide - Background**

MURC induces RHOA activation and activates NPPA transcription and myofibrillar organization through the Rho/ROCK signaling pathway.

MURC Antibody (N-term) Blocking peptide - References

Tagawa, M., et al. Am. J. Physiol., Cell Physiol. 295 (2), C490-C498 (2008) :Ogata, T., et al. Mol. Cell. Biol. 28(10):3424-3436(2008)