

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP6372b**Specification**

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [O00159](#)**Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 4641**Other Names**

Unconventional myosin-Ic, Myosin I beta, MMI-beta, MM1b, MYO1C

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP6372b](/product/products/AP6372b) was selected from the C-term region of human MYO1C. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Protein Information**Name** MYO1C**Function**

Myosins are actin-based motor molecules with ATPase activity. Unconventional myosins serve in intracellular movements. Their highly divergent tails are presumed to bind to membranous compartments, which would be moved relative to actin filaments. Involved in glucose transporter recycling in response to insulin by regulating movement of intracellular GLUT4-containing vesicles to the plasma membrane. Component of the hair cell's (the sensory cells of the inner ear) adaptation-motor complex. Acts as a mediator of adaptation of mechanoelectrical transduction in stereocilia of vestibular hair cells. Binds phosphoinositides and links the actin cytoskeleton to cellular membranes.

Cellular Location

Cytoplasm. Nucleus. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q9WTI7}. Cell projection, stereocilium membrane {ECO:0000250|UniProtKB:Q92002}. Cytoplasmic vesicle

{ECO:0000250|UniProtKB:Q9WTI7}. Cell projection, ruffle membrane. Note=Colocalizes with CABP1 and CIB1 at cell margin, membrane ruffles and punctate regions on the cell membrane (By similarity). Colocalizes in adipocytes with GLUT4 at actin-based membranes (By similarity). Colocalizes with GLUT4 at insulin-induced ruffles at the cell membrane (By similarity). Localizes transiently at cell membrane to region known to be enriched in PIP2 (By similarity) Activation of phospholipase C results in its redistribution to the cytoplasm (By similarity). Colocalizes with RNA polymerase II (PubMed:22736583). Translocates to nuclear speckles upon exposure to inhibitors of RNA polymerase II transcription (PubMed:22736583) {ECO:0000250|UniProtKB:Q9WTI7, ECO:0000269|PubMed:22736583}

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Images

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - Background

MYO1C is a member of the unconventional myosin protein family, which are actin-based molecular motors. The protein is found in the cytoplasm, and one isoform with a unique N-terminus is also found in the nucleus. The nuclear isoform associates with RNA polymerase I and II and functions in transcription initiation. The mouse ortholog of this protein also functions in intracellular vesicle transport to the plasma membrane.

Myosin 1C (MYO1C) Antibody (C-term) Blocking peptide - References

Crozet F., Genomics 40:332-341(1997).