

Product datasheet

Recombinant Human Myosin 1C protein ab158939

1 Image

Overview

<b>Product name</b>	Recombinant Human Myosin 1C protein
<b>Protein length</b>	Full length protein

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Wheat germ

Amino Acid Sequence

<b>Species</b>	Human
<b>Sequence</b>	<p>MESALTARDRVGVQDFVLLNFTSEAAFIENLRRRFRENLIYTYIGPVLV  SVNPYRDLQIYSRQHMERVYRGVSFYEVPPHLFAVADTVYRALRTERRDQA  VMISGESGAGKTEATKRLQFYAETCPAPERGGAVRDRLLQSNPVLEAFG  NAKTLRNDNSSRFGKYMDVQDFDKGAPVGGHILSYLLEKSRVHQNHGER  NFHIFYQLLEGGEEETLRLGLERNPQSYLYLVKGQCAKVSSINDKSDWK  VVRKALTVIDFTEDEVEDLLSMASVLHLGNIHFAANEESSNAQVTTENQL  KYLTRLLSVEGSTLREALTHRKIIAKGEELLSPLNLEQAAYARDALAKAV  YSRTFTWLVGKINRSLASKDVEPSWRSTTVLGLLDIYGFEVQHNSEFQ  FCINYCNEKLQQLFIELTLKSEQEEYEAEGIAWEPVQYFNKIKCDLVEE  KFKGIISILDEECLRPGEATDLTFLEKLEDTVKHHPHFLTHKLADQRTRK  SLGRGEFRLLHYAGEVTYSVTGFLDKNNDLLFRNLKETMCSKPNIMSQC  FDRSELSDKKRPETVATQFKMSLLQLVEILQSKEPAYVRCIKPNDAKQPG  RFDEVLRHQVKYLGLENLRVRRAGFAYRRKYEAFQRYKSLCPETWPT  WAGRPQDGVAVLVRHLGYPPEEYKMGRTKIFIRFPKTLFATEDALEVRRQ  SLATKIQAAWRGFHWQKFLRVKRSACIQSWWRGTLGRRKAAKRWAAQ  TIRRLIRGFILRHAPRCPENAFFLDHVRTSFLNLRRLPRNVLDTSWPT  PPPALREASELLRELCKNMVWKYCRSISPEWKQQLQKAVASEIFKGGK  DNYPQSVPRLFISTRGTDEISPRVLQALGSEPIQYAVPVVYDRKGYKP  RSRQLLLTPNAVVEDAKVKQRIDYANLTGISVSSLSDSLFLVHVQRAD  NKQKGDVVLQSDHVIETLTKTALSANRVNSININQGSITFAGGPGRDGTI  DFTPGSELLTKAKNGHLAVVAPRLNSR</p>

<b>Amino acids</b>	1 to 1028
<b>Tags</b>	proprietary tag N-Terminus

Specifications

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Our [Abpromise guarantee](#) covers the use of **ab158939** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA
<b>Form</b>	Liquid
<b>Additional notes</b>	Protein concentration is above or equal to 0.05 mg/ml.

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## Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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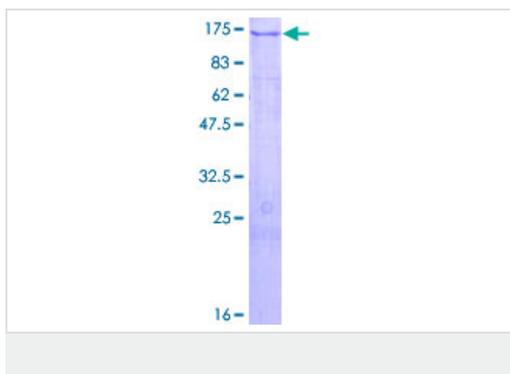
## General Info

<b>Function</b>	<p>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 mechano-electrical transduction in stereocilia of vestibular hair cells. Binds phosphoinositides and links the actin cytoskeleton to cellular membranes.</p> <p>Isoform 3 is involved in regulation of transcription. Associated with transcriptional active ribosomal genes. Appears to cooperate with the WICH chromatin-remodeling complex to facilitate transcription. Necessary for the formation of the first phosphodiester bond during transcription initiation.</p>
<b>Sequence similarities</b>	<p>Contains 2 IQ domains.</p> <p>Contains 1 myosin head-like domain.</p>
<b>Domain</b>	<p>Binds directly to large unilamellar vesicles (LUVs) containing phosphatidylinositol 4,5-bisphosphate (PIP2) or inositol 1,4,5-trisphosphate (InsP3). The PIP2-binding site corresponds to a putative PH domain present in its tail domain.</p>
<b>Cellular localization</b>	<p>Cytoplasm. Cell membrane. Cell projection &gt; stereocilium membrane. Colocalizes with CABP1 and CIB1 at cell margin, membrane ruffles and punctate regions on the cell membrane.</p> <p>Colocalizes in adipocytes with GLUT4 in actin-based membranes. Localizes transiently at cell membrane to region known to be enriched in PIP2. Activation of phospholipase C results in its redistribution to the cytoplasm and Nucleus &gt; nucleoplasm. Nucleus &gt; nucleolus. Nucleus &gt; nuclear pore complex. Colocalizes with RNA polymerase II in the nucleus. Colocalizes with RNA polymerase I in nucleoli (By similarity). In the nucleolus, is localized predominantly in dense fibrillar component (DFC) and in granular component (GC). Accumulates strongly in DFC and GC during activation of transcription. Colocalizes with transcription sites. Colocalizes in the granular cortex at the periphery of the nucleolus with RPS6. Colocalizes in nucleoplasm with RPS6 and actin that are in contact with RNP particles. Colocalizes with RPS6 at the nuclear pore level.</p>

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## Images

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ab158939 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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