

Product datasheet

Anti-MYO1C antibody ab154498

[1 Abreviews](#) [3 Images](#)

Overview

Product name	Anti-MYO1C antibody
Description	Rabbit polyclonal to MYO1C
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human MYO1C aa 1-1028. Database link: O00159-2
Positive control	A431 cell lysate; MYO1C-transfected 293T whole cell Lysate; Human PC14 xenograft tissue.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 79.99% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab154498 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 118 kDa.
IHC-P		1/100 - 1/1000.

Target

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.

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.

Sequence similarities

Contains 2 IQ domains.
Contains 1 myosin head-like domain.

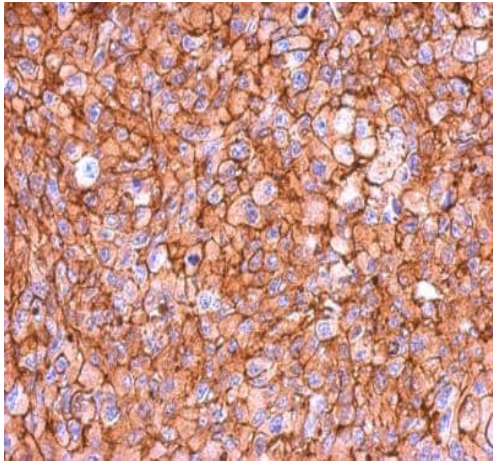
Domain

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.

Cellular localization

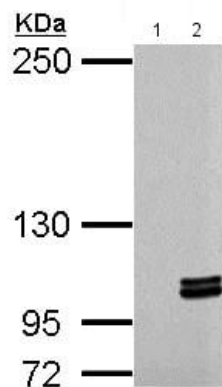
Cytoplasm. Cell membrane. Cell projection > stereocilium membrane. Colocalizes with CABP1 and CIB1 at cell margin, membrane ruffles and punctate regions on the cell membrane. Colocalizes in adipocytes with GLUT4 in actin-based membranes. Localizes transiently at cell membrane to region known to be enriched in PIP2. Activation of phospholipase C results in its redistribution to the cytoplasm and Nucleus > nucleoplasm. Nucleus > nucleolus. Nucleus > 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.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MYO1C antibody (ab154498)

Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human PC14 xenograft tissue, labeling MYO1C using ab154498 at a 1/500 dilution.



Western blot - Anti-MYO1C antibody (ab154498)

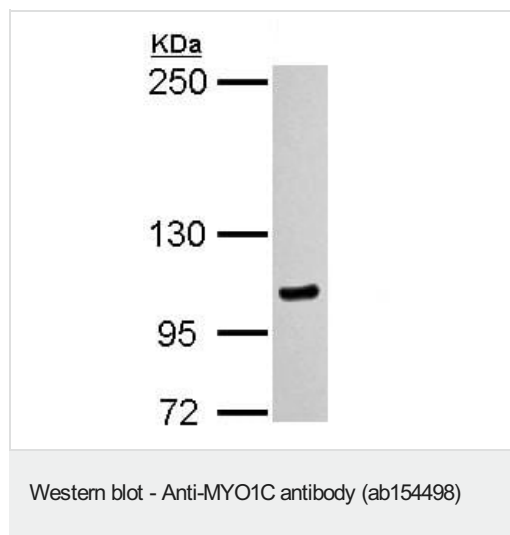
All lanes : Anti-MYO1C antibody (ab154498) at 1/5000 dilution

Lane 1 : Non-transfected 293T whole cell lysate

Lane 2 : MYO1C-transfected 293T whole cell Lysate

Predicted band size: 118 kDa

5% SDS PAGE



Anti-MYO1C antibody (ab154498) at 1/1000 dilution + A431 whole cell lysate at 30 µg

Predicted band size: 118 kDa

5% SDS PAGE

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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