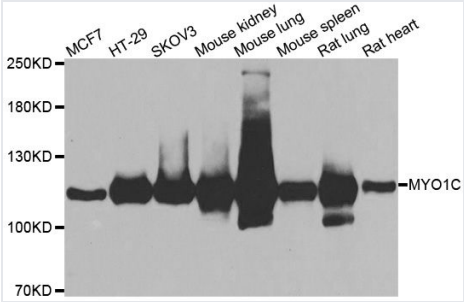
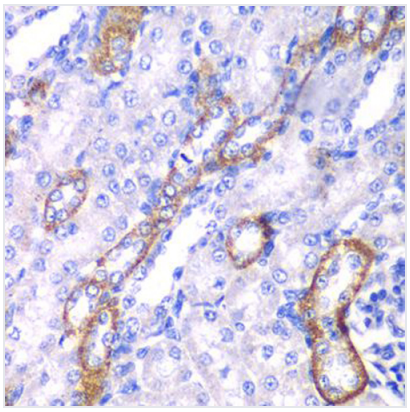
# MYO1C Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

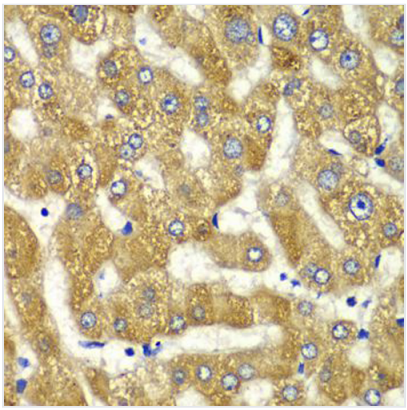
| | |
|---|---|
| **Product Name** | MYO1C, Polyclonal Antibody |
| **Full Product Name** | MYO1C Polyclonal Antibody |
| **Product Gene Name** | anti-MYO1C antibody |
| **Product Synonym Names** | NMI; MMIb; myr2; MMI-beta |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Purity/Purification** | Affinity Purification |
| **Concentration** | 1mg/ml (lot specific) |
| **Preparation and Storage** | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |
| **Molecular Weight** | 1063 |
| **OMIM** | 606538 |
| **3D Structure** | ModBase 3D Structure for O00159 |
| **Species** | Human |
| **Immunogen** | Recombinant protein of human MYO1C |
| **Calculated Molecular Weight** | 122kDa |
| **Product Categories/Family for anti-MYO1C antibody** | Polyclonal |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-MYO1C antibody** | Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF) |
| **Application Notes for anti-MYO1C antibody** | WB: 1:500 - 1:2000<br>IHC: 1:50 - 1:200<br>IF: 1:50 - 1:100 |
| **Related Product Information for anti-MYO1C antibody** | This gene encodes 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. Multiple transcript variants encoding different isoforms have been found for this gene. The related gene myosin IE has been referred to as myosin IC in the literature, but it is a distinct locus on chromosome 19. |
| **Other Notes** | Small volumes of anti-MYO1C antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for MYO1C purchase** | MBS129712 is an antibody targeting MYO1C. Also known as MYO1C Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |



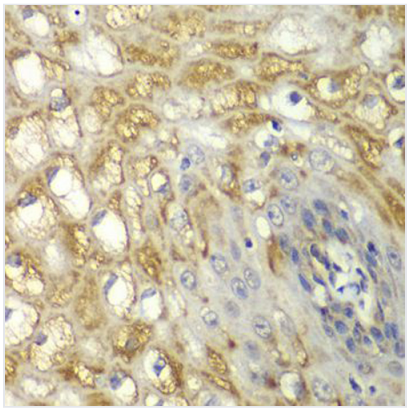

**Western Blot (WB) of anti-MYO1C antibody**
Western blot analysis of extracts of various cell lines, using MYO1C antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.



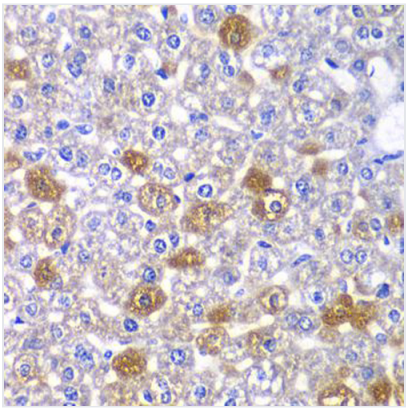
**Immunohistochemistry (IHC) of anti-MYO1C antibody**
Immunohistochemistry of paraffin-embedded rat kidney using MYO1C antibody at dilution of 1:100 (40x lens).



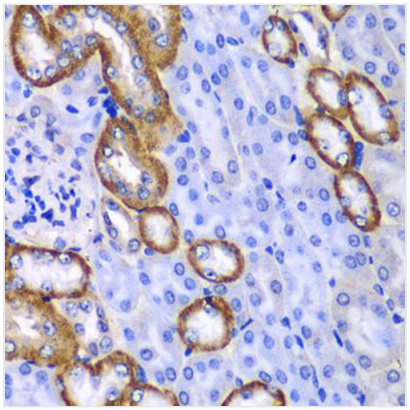
**Immunohistochemistry (IHC) of anti-MYO1C antibody**
Immunohistochemistry of paraffin-embedded human liver injury using MYO1C antibody at dilution of 1:100 (40x lens).



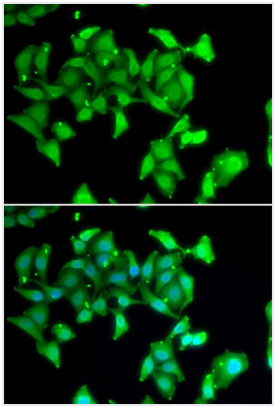
**Immunohistochemistry (IHC) of anti-MYO1C antibody**
Immunohistochemistry of paraffin-embedded human esophagus using MYO1C antibody at dilution of 1:100 (40x lens).



**Immunohistochemistry (IHC) of anti-MYO1C antibody**
Immunohistochemistry of paraffin-embedded mouse liver using MYO1C antibody at dilution of 1:100 (40x lens).



**Immunohistochemistry (IHC) of anti-MYO1C antibody**
Immunohistochemistry of paraffin-embedded mouse kidney using MYO1C antibody at dilution of 1:100 (40x lens).



**Immunofluorescence (IF) of anti-MYO1C antibody**
Immunofluorescence analysis of U2OS cells using MYO1C antibody. Blue: DAPI for nuclear staining.

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MYO1C. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 317373577 |
| **NCBI GeneID** | 4641 |
| **NCBI Accession #** | O00159.4 |
| **UniProt Primary Accession #** | O00159 |
| **UniProt Secondary Accession #** | Q4LE56; Q6NVJ7; Q86Y95 |
| **UniProt Related Accession #** | O00159 |
| **NCBI Official Full Name** | Unconventional myosin-Ic |
| **NCBI Official Synonym Full Names** | myosin IC |
| **NCBI Official Symbol** | MYO1C |
| **NCBI Official Synonym Symbols** | NMI; MMIb; myr2; MMI-beta |
| **UniProt Protein Name** | Unconventional myosin-Ic |
| **UniProt Synonym Protein Names** | Myosin I beta; MMI-beta; MMIb |
| **Protein Family** | Unconventional myosin |
| **UniProt Gene Name** | MYO1C |
| **UniProt Synonym Gene Names** | MMI-beta; MMIb |
| **UniProt Entry Name** | MYO1C_HUMAN |
| **NCBI Protein Information** | unconventional myosin-Ic; myosin I beta; myosin-I beta; nuclear myosin I |

| | |
|---|---|
| **UniProt Comments for MYO1C** | MYO1C: 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. 3 isoforms of the human protein are produced by alternative splicing.<br><br>Protein type: Actin-binding; Contractile; Motor; Motility/polarity/chemotaxis; Nucleolus; Lipid-binding<br><br>Chromosomal Location of Human Ortholog: 17p13.3<br><br>Cellular Component: myosin I complex; microvillus; mitochondrion; cytoplasmic membrane-bound vesicle; nuclear pore; cytosol; lipid raft; nucleoplasm; ruffle; filamentous actin; membrane; cytoplasm; unconventional myosin complex; stress fiber; nucleolus; basal plasma membrane; plasma membrane; brush border; lateral plasma membrane<br><br>Molecular Function: calmodulin binding; protein C-terminus binding; protein binding; Ral GTPase binding; motor activity; actin-dependent ATPase activity; actin binding; ATP binding; receptor binding<br><br>Biological Process: mRNA transport; metabolic process; innate immune response; protein targeting to membrane; protein targeting; positive regulation of cell migration |
| **Research Articles on MYO1C** | **1.** myosin 1c manipulations lead to loss of the actin filaments and to similar endoplasmic reticulum phenotype as observed after actin depolymerization. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/myo1c/129712