

Anti-Myosin Light Chain 2 antibody [EPR3741] ab92721

リコンビナント **RabMAb**

★★★★☆ **5 Abreviews** **32 References** 画像数 8

製品の概要

製品名	Anti-Myosin Light Chain 2 antibody [EPR3741]
製品の詳細	Rabbit monoclonal [EPR3741] to Myosin Light Chain 2
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-P 適用なし: Flow Cyt
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: human heart, human skeletal muscle, mouse heart, rat heart lysates IHC: human cardiac muscle, mouse cardiac muscle, rat cardiac muscle
特記事項	<p>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
解離定数 (K _D 値)	K _D = 2.78 x 10 ⁻¹⁰ M





[Learn more about K_D](#)

バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR3741
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、**次のテスト済みアプリケーションにおけるab92721の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

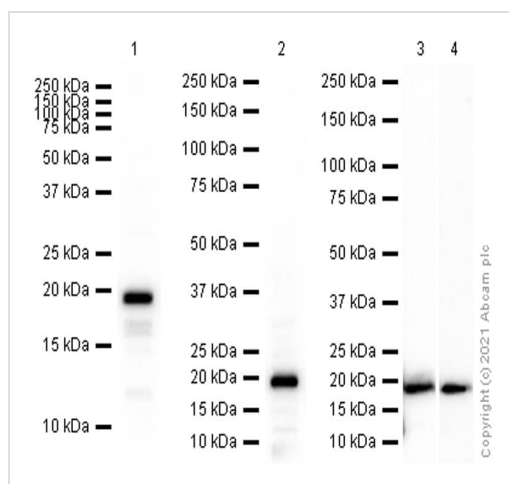
アプリケーション	Abreviews	特記事項
WB	★★★★☆ (4)	1/10000. Predicted molecular weight: 19 kDa.
IHC-P		1/600. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The use of an HRP/AP polymerized secondary antibody is recommended.

追加情報 Is unsuitable for Flow Cyt.

ターゲット情報

関連疾患	Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic type 10 (CMH10) [MIM:608758]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Defects in MYL2 are the cause of cardiomyopathy familial hypertrophic with mid-left ventricular chamber type 2 (MVC2) [MIM:608758]. MVC2 is a very rare variant of familial hypertrophic cardiomyopathy, characterized by mid-left ventricular chamber thickening.
配列類似性	Contains 3 EF-hand domains.
翻訳後修飾	N-terminus is methylated by METTL11A/NTM1.

画像



Western blot - Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721)

All lanes : Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721) at 1/10000 dilution (Purified)

Lane 1 : Human heart lysate

Lane 2 : Human skeletal muscle lysate

Lane 3 : Mouse heart lysate

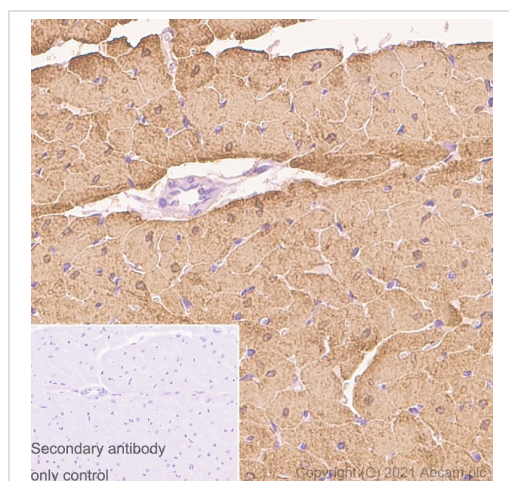
Lane 4 : Rat heart lysate

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

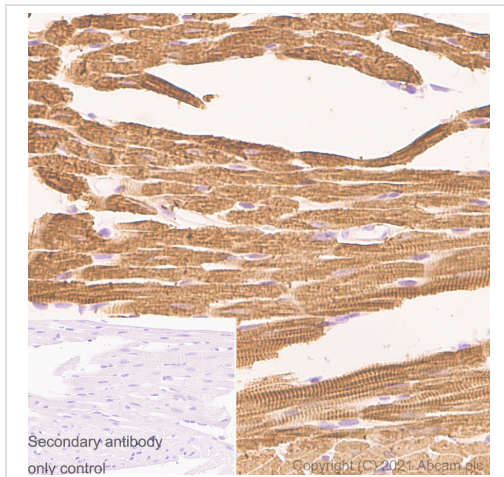
Predicted band size: 19 kDa

Observed band size: 19 kDa



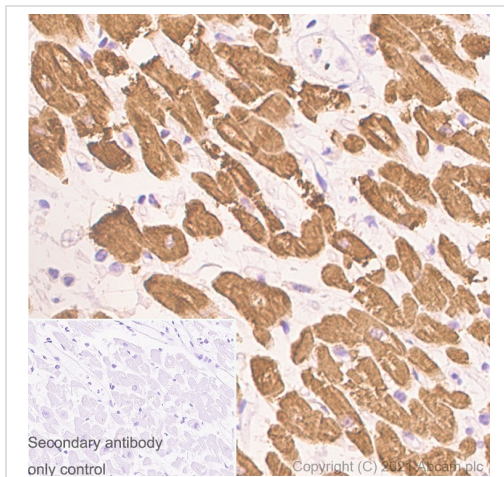
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat cardiac muscle tissue sections labeling Myosin Light Chain 2 with Purified ab92721 at 1/600 dilution (0.16 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control. M3



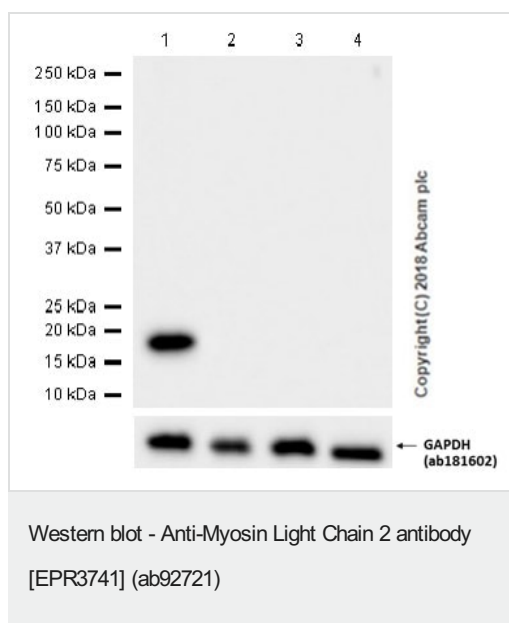
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse cardiac muscle tissue sections labeling Myosin Light Chain 2 with Purified ab92721 at 1/600 dilution (0.16 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control. M3



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac muscle tissue sections labeling Myosin Light Chain 2 with Purified ab92721 at 1/600 dilution (0.16 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) . Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control. M3



All lanes : Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721) at 1/1000 dilution

Lane 1 : Human fetal heart tissue lysate

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 3 : 293T (Human embryonic kidney epithelial cell), whole cell lysate

Lane 4 : MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

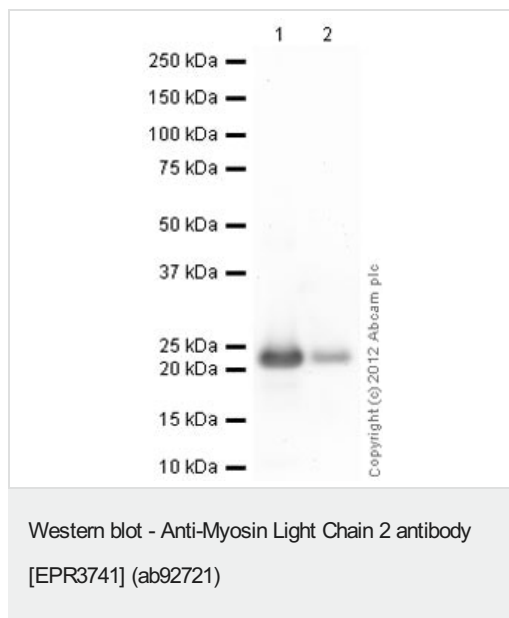
Predicted band size: 19 kDa

Observed band size: 19 kDa

Exposure time: 10 seconds

Blocking/Diluting buffer and concentration 5% NFDm/TBST

Myosin light chain-2 (MYL2, also called MLC-2) is an ~19kDa sarcomeric protein that belongs to the EF-hand calcium binding protein superfamily and exists as three major isoforms encoded by three distinct genes in mammalian striated muscle (PMID: 26074085). Although some cell lines are reported to be MYL2 positive, such as HeLa, 293T and MCF7 (PMID: 21487036, 21487036, 23093227), ab92721 only works in muscle and heart tissues according to our internal testing.



All lanes : Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721) at 1/10000 dilution

Lane 1 : Recombinant Human Myosin Light Chain 2 protein ([ab79185](#)) at 0.1 µg

Lane 2 : Recombinant Human Myosin Light Chain 2 protein ([ab79185](#)) at 0.01 µg

Secondary

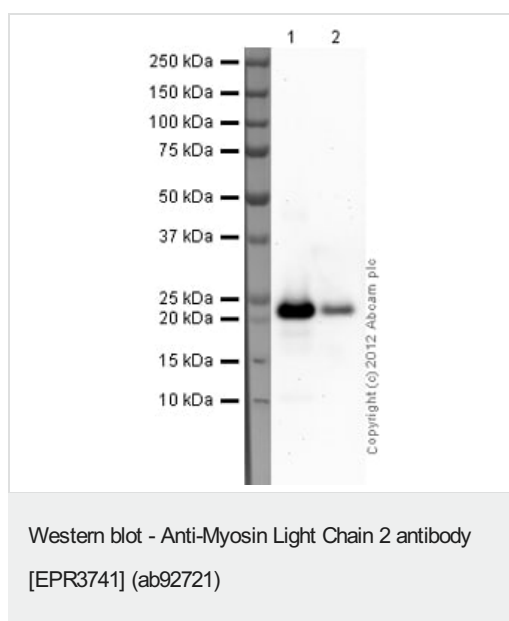
All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 19 kDa

Exposure time: 4 minutes



All lanes : Anti-Myosin Light Chain 2 antibody [EPR3741] (ab92721) at 1/10000 dilution

Lane 1 : Recombinant Human Myosin Light Chain 2 protein ([ab79185](#)) at 0.1 µg

Lane 2 : Recombinant Human Myosin Light Chain 2 protein ([ab79185](#)) at 0.01 µg

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 19 kDa

Exposure time: 8 minutes

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Myosin Light Chain 2 antibody [EPR3741]
(ab92721)

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