abcam

Product datasheet

# Anti-Cardiac Troponin I antibody [EP1106Y] ab52862

リコンビナント RabMAb

★★★★★ 2 Abreviews 15 References 画像数 8

## 製品の概要

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|---|---|
| **製品名** | Anti-Cardiac Troponin I antibody [EP1106Y] |
| **製品の詳細** | Rabbit monoclonal [EP1106Y] to Cardiac Troponin I |
| **由来種** | Rabbit |
| **アプリケーション** | **適用あり:** Flow Cyt (Intra), WB, IP, IHC-P |
| **種交差性** | **交差種:** Human |
| **免疫原** | Synthetic peptide within Human Cardiac Troponin I aa 1-100 (N terminal). The exact sequence is proprietary.<br>Database link: **P19429** |
| **ポジティブ・コントロール** | WB: Human fetal heart tissue lysate. IHC-P: Human heart and Human cardiac muscle tissues. Flow Cyt (intra): A-673 cells. |
| **特記事項** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.<br><br>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information. |

## 製品の特性

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|---|---|
| **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. |
| **バッファー** | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: PBS, 40% Glycerol, 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** | EP1106Y |
| **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ab52862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 |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/30. |
| **WB** | | 1/100000 - 1/1e+006. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa). |
| **IP** | | 1/50. |
| **IHC-P** | | 1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |

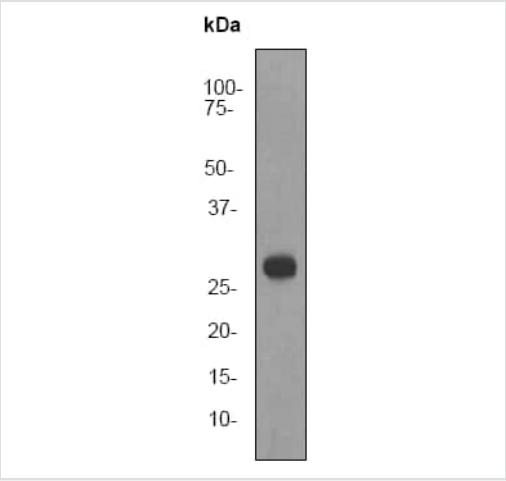
## ターゲット情報

**機能** Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.

**関連疾患** Defects in TNNI3 are the cause of cardiomyopathy familial hypertrophic type 7 (CMH7) [MIM:613690]. 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 TNNI3 are the cause of cardiomyopathy familial restrictive type 1 (RCM1) [MIM:115210]. RCM1 is an heart muscle disorder characterized by impaired filling of the ventricles with reduced diastolic volume, in the presence of normal or near normal wall thickness and systolic function.
Defects in TNNI3 are the cause of cardiomyopathy dilated type 2A (CMD2A) [MIM:611880]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.
Defects in TNNI3 are the cause of cardiomyopathy dilated type 1FF (CMD1FF) [MIM:613286]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

**配列類似性** Belongs to the troponin I family.

## 画像




Western blot - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

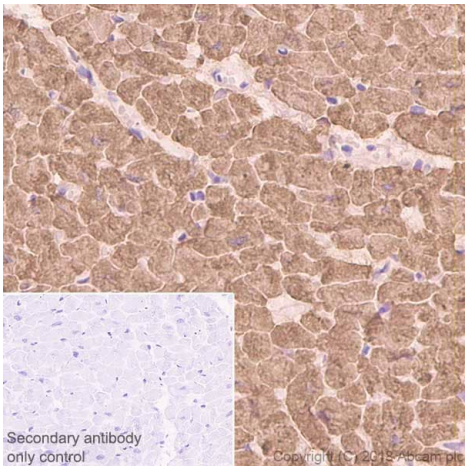
Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862) at 1/1000000 dilution + fetal heart cell lysate at 10 µg

**Secondary**

Goat anti-rabbit HRP at 1/2000 dilution

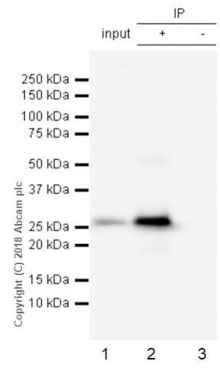
**Predicted band size:** 28 kDa

**Observed band size:** 28 kDa



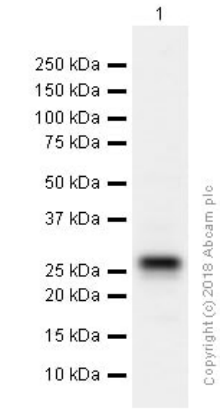

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human cardiac muscle tissue sections labeling Cardiac Troponin I with Purified ab52862 at 1:300 dilution (1.19 µg/ml). Heat mediated antigen retrieval was performed Perform heat mediated antigen retrieval using **ab93684** (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.




Immunoprecipitation - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

ab52862 (purified) at 1:30 dilution (2µg) immunoprecipitating Cardiac Troponin I in Human fetal heart lysate.
Lane 1 (input): Human fetal heart lysate 10µg
Lane 2 (+): ab52862 & Human fetal heart lysate
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab52862 in Human fetal heart lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.



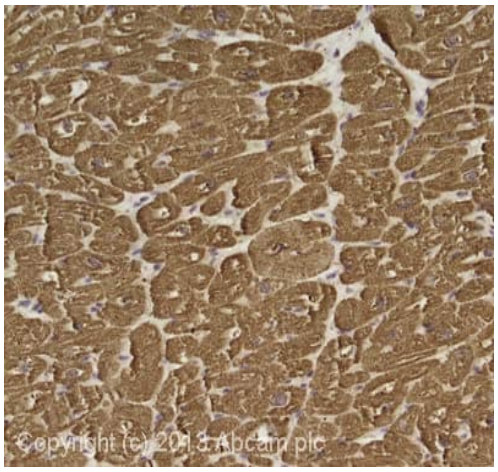

Western blot - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862) at 1/500000 dilution + Human fetal heart lysates at 15 µg with NFDM/TBST at 5 %

**Secondary**
Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 28 kDa
**Observed band size:** 28 kDa

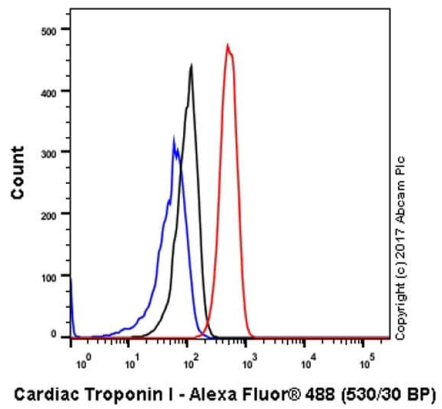
Diluting buffer: 5% NFDM/TBST




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

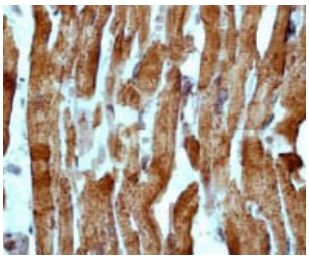
IHC image of Cardiac Troponin I staining in human heart formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab52862, 1/200 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times



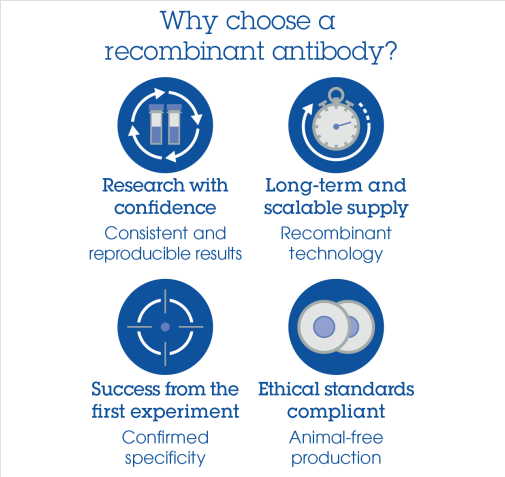

Flow Cytometry (Intracellular) - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

Intracellular Flow Cytometry analysis of A-673 (Human muscle Ewing's Sarcoma) cells labeling Cardiac Troponin I (red) with ab52862 at a 1/30 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG (Black) (**ab172730**). Blue (unlabeled control) - Cell without incubation with primary antibody and secondary antibody (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin I antibody [EP1106Y] (ab52862)

ab52862 at 1/250 dilution staining cardiac Troponin I in human cardiac muscle by Immunohistochemistry, Paraffin embedded tissue.




Anti-Cardiac Troponin I antibody [EP1106Y]

(ab52862)

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