

# Anti-Cardiac Troponin T antibody [EPR3695] ab91605

**重组** RabMAb

★★★★★ **1 Abreviews** **13 References** **4 图像**

### 概述

产品名称	Anti-Cardiac Troponin T抗体[EPR3695]
描述	兔单克隆抗体[EPR3695] to Cardiac Troponin T
宿主	Rabbit
经测试应用	<b>适用于:</b> WB, IP, IHC-P
种属反应性	<b>与反应:</b> Human
免疫原	Synthetic peptide within Human Cardiac Troponin T aa 50-150. The exact sequence is proprietary.
阳性对照	IP: Human heart lysate.
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR3695

同种型IgG

应用

The Abpromise guarantee      **Abpromise™**承诺保证使用ab91605于以下的经测试应用

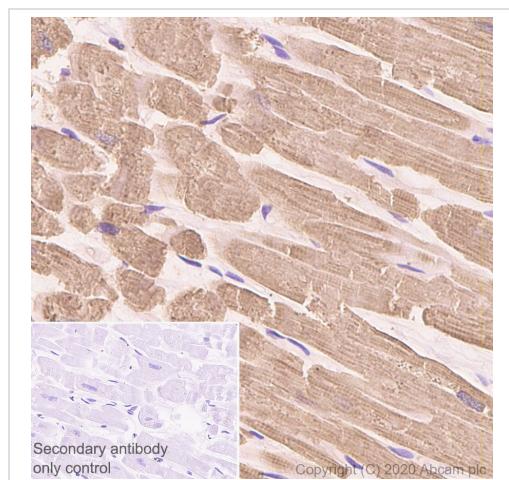
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 36 kDa.
IP		1/50.
IHC-P		1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. The use of an HRP/AP polymerized secondary antibody is recommended as stronger signals have been found using these. IHC-P validated in Human samples only.

靶标

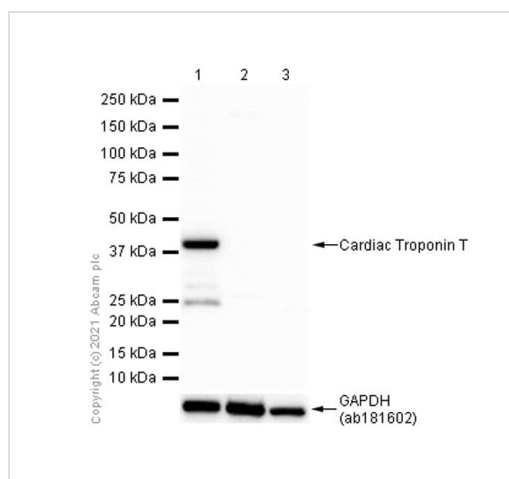
功能	Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.
组织特异性	Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in fetal heart. Isoform 7 is also expressed in failing adult heart.
疾病相关	Defects in TNNT2 are the cause of cardiomyopathy familial hypertrophic type 2 (CMH2) [MIM:115195]. 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 TNNT2 are the cause of cardiomyopathy dilated type 1D (CMD1D) [MIM:601494]. 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 TNNT2 are the cause of cardiomyopathy familial restrictive type 3 (RCM3) [MIM:612422]. Restrictive cardiomyopathy is a heart 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.
序列相似性	Belongs to the troponin T family.

图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin T antibody [EPR3695] (ab91605)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human cardiac muscle tissue sections labelling Cardiac Troponin T with purified ab91605 at 1/500 dilution (0.32 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. The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-Cardiac Troponin T antibody [EPR3695] (ab91605)

**All lanes :** Anti-Cardiac Troponin T antibody [EPR3695] (ab91605) at 1/1000 dilution (Purified)

**Lane 1 :** Human heart lysate

**Lane 2 :** Human skeletal muscle lysate

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

Lysates/proteins at 20 µg per lane.

### Secondary

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

**Predicted band size:** 36 kDa

**Observed band size:** 39 kDa

The molecular weight observed is consistent with what has been described in the literature (PMID: 15793653).



Immunoprecipitation - Anti-Cardiac Troponin T antibody [EPR3695] (ab91605)

Purified ab91605 at 1/50 dilution (2µg) immunoprecipitating Cardiac Troponin T in Human heart lysate.

Lane 1 (input): Human heart lysate 10µg

Lane 2 (+): ab91605 + Human heart lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab91605 in Human heart lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM/TBST.

Observed band size: 39 kDa

#### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-Cardiac Troponin T antibody [EPR3695] (ab91605)

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

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