

## Product datasheet

# Anti-Cardiac Troponin T antibody [EPR3695] ab91605

**重组 RabMAb**

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### 概述

<b>产品名称</b>	Anti-Cardiac Troponin T抗体[EPR3695]
<b>描述</b>	兔单克隆抗体[EPR3695] to Cardiac Troponin T
<b>宿主</b>	Rabbit
<b>经测试应用</b>	<b>适用于:</b> WB, IP, IHC-P <b>不适用于:</b> Flow Cyt or ICC
<b>种属反应性</b>	<b>与反应:</b> Human
<b>免疫原</b>	Synthetic peptide within Human Cardiac Troponin T aa 50-150. The exact sequence is proprietary.
<b>阳性对照</b>	WB: Human cardiac tissue lysate. IHC-P: Human cardiac muscle tissue.
<b>常规说明</b>	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.
	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>
	This product is a recombinant rabbit monoclonal antibody.

### 性能

<b>形式</b>	Liquid
<b>存放说明</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>存储溶液</b>	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant
<b>纯度</b>	Tissue culture supernatant
<b>克隆</b>	单克隆
<b>克隆编号</b>	EPR3695
<b>同种型</b>	IgG

## 应用

Our [Abpromise guarantee](#) covers the use of **ab91605** in the following tested applications.

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

应用	Ab 评论	说明
WB		1/100000 - 1/500000. Predicted molecular weight: 36 kDa.
IP		1/10.
IHC-P		1/100 - 1/250. 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.

## 应用说明

Is unsuitable for Flow Cyt or ICC.

## 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.

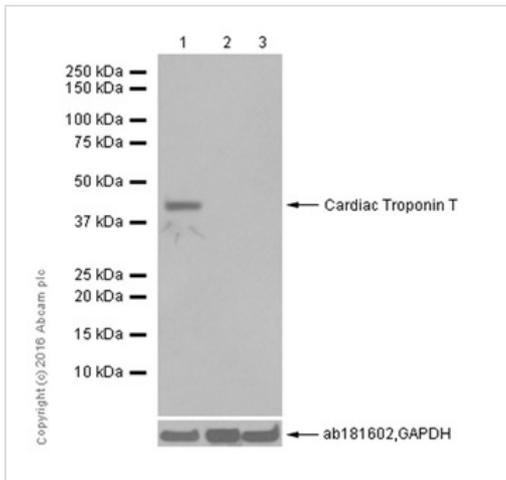
Defects in TNNT2 are the cause of cardiomyopathy dilated type 1D (CMD1D) [MIM:601494]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

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



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

**All lanes :** Anti-Cardiac Troponin T antibody

[EPR3695] (ab91605) at 1/50000 dilution

**Lane 1 :** Human heart tissue lysate

**Lane 2 :** Human skeletal muscle tissue lysate

**Lane 3 :** 293T whole cell lysate

Lysates/proteins at 15 µg per lane.

#### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP)

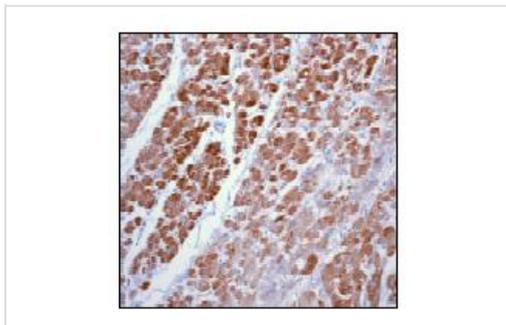
(ab97051) at 1/20000 dilution

**Predicted band size:** 36 kDa

**Observed band size:** 39 kDa

**Exposure time:** 1 second

Blocking and dilution buffer: 5% NFDm/TBST.



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

ab91605 at 1/100 dilution, staining Cardiac Troponin T in paraffin embedded Human cardiac muscle tissue

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