

Anti-Cardiac Troponin I antibody ab58544

[1 References](#) [2 图像](#)

概述

产品名称	Anti-Cardiac Troponin I 抗体
描述	兔多克隆抗体 to Cardiac Troponin I
宿主	Rabbit
特异性	Detects endogenous levels of total cardiac Troponin I protein
经测试应用	适用于: IHC-Fr, WB, ELISA, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide from human TNNI3 around the phosphorylation site of serine 22 and serine 23 (RRS ^P S ^P A)
阳性对照	Mouse heart cell extract

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	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg ²⁺ and Ca ²⁺), 150mM Sodium chloride, pH 7.4
纯度	Immunogen affinity purified
纯化说明	Affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用 ab58544 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
IHC-Fr		Use at an assay dependent concentration. PubMed: 22919071
WB		1/500 - 1/1000. Detects a band of approximately 30 kDa (predicted molecular weight: 24 kDa).
ELISA		1/5000.
IHC-P		Use a concentration of 4 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

靶标

功能

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

疾病相关

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.

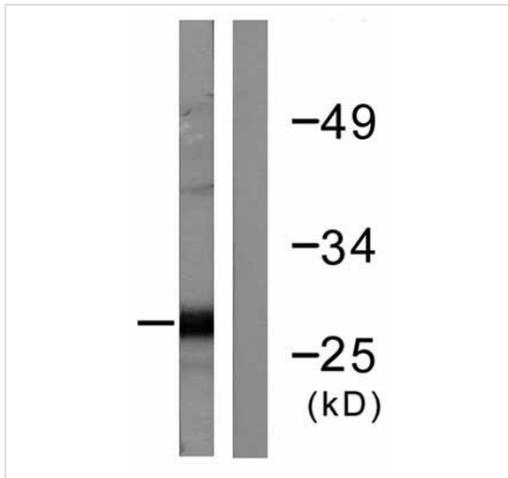
Defects in TNNI3 are the cause of cardiomyopathy dilated type 2A (CMD2A) [MIM:611880]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

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.

序列相似性

Belongs to the troponin I family.

图片



Western blot - Anti-Cardiac Troponin I antibody (ab58544)

All lanes : Anti-Cardiac Troponin I antibody (ab58544) at 1/500 dilution

Lane 1 : Mouse heart cell extract

Lane 2 : Mouse heart cell extract with peptide

Predicted band size: 24 kDa

Observed band size: 30 kDa

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin I antibody (ab58544)

Ab58544 staining human normal heart. Staining is localised to the cytoplasm.

Left panel: with primary antibody at 4 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus , at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffer EDTA pH 9.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be required.

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