


Product datasheet

Anti-Cardiac Troponin I antibody ab155047

[1 References](#) [4 Images](#)

Overview

Product name	Anti-Cardiac Troponin I antibody
Description	Rabbit polyclonal to Cardiac Troponin I
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Pig 
Immunogen	Recombinant fragment corresponding to a region within amino acids 1-210 of Human Cardiac Troponin I (UniProt ID: P19429).
Positive control	HepG2 and Mouse heart whole cell lysate; HepG2 cells; Human NCI-N87 xenograft tissue
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab155047 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 24 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

Target**Function**

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

Involvement in disease

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.

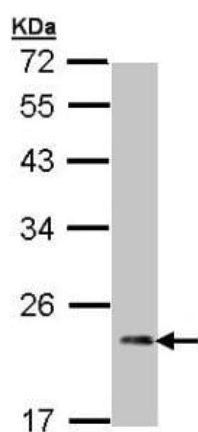
Defects in TNNI3 are the cause of cardiomyopathy dilated type 2A (CMD2A) [MIM:611880]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

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.

Sequence similarities

Belongs to the troponin I family.

Images

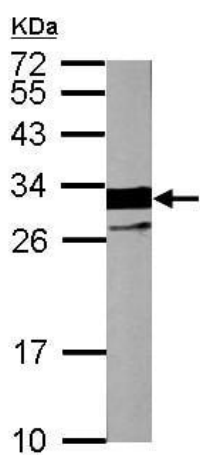


Western blot - Anti-Cardiac Troponin I antibody
(ab155047)

Anti-Cardiac Troponin I antibody (ab155047) at 1/1000 dilution +
HepG2 whole cell lysate at 30 µg

Predicted band size: 24 kDa

12% SDS PAGE

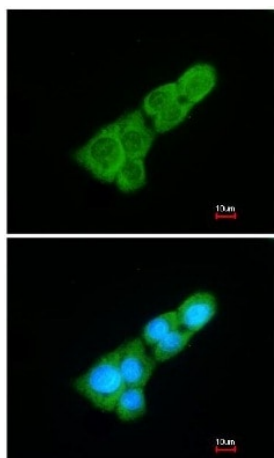


Western blot - Anti-Cardiac Troponin I antibody
(ab155047)

Anti-Cardiac Troponin I antibody (ab155047) at 1/10000 dilution +
Mouse heart whole cell lysate at 50 µg

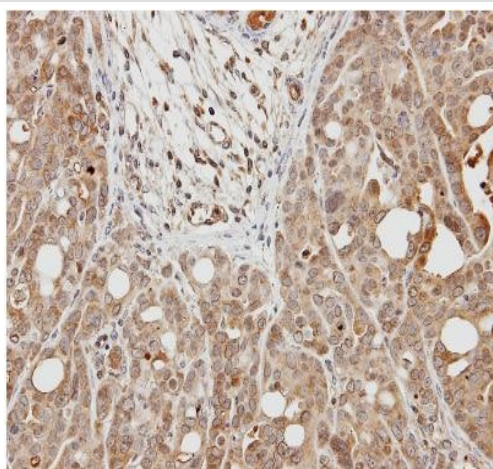
Predicted band size: 24 kDa

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Immunofluorescence analysis of methanol fixed HepG2 cells labeling Cardiac Troponin I with ab155047 at 1/200 dilution. Lower image costained with Hoechst 33342.

Immunocytochemistry/ Immunofluorescence - Anti-Cardiac Troponin I antibody (ab155047)



Immunohistochemical analysis of paraffin embedded Human NCI-N87 xenograft tissue, labeling Cardiac Troponin I with ab155047 at 1/500 dilution

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cardiac Troponin I antibody (ab155047)

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