

## Product datasheet

# Cardiac Troponin T overexpression 293T lysate (whole cell) ab94042

[2 Images](#)

### Overview

<b>Product name</b>	Cardiac Troponin T overexpression 293T lysate (whole cell)
<b>General notes</b>	ab94042 is a 293T cell transfected lysate in which Human Cardiac Troponin T has been transiently over-expressed using a pCMV-Cardiac Troponin T plasmid. The lysate is provided in 1X Sample Buffer.
<b>Tested applications</b>	<b>Suitable for:</b> WB

### Properties

<b>Mycoplasma free</b>	Yes
<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped on dry ice. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Constituents: 0.01% Bromophenol blue, 2.3% Beta mercaptoethanol, 2% Sodium lauryl sulfate, 0.788% Tris HCl, 10% Glycerol (glycerin, glycerine)
<b>Background</b>	<p>Disease: 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. Function: Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Similarity: Belongs to the troponin T family. Tissue specificity: 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.</p>

## Applications

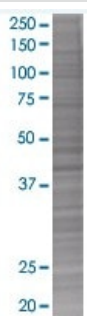
### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab94042 in the following tested applications.

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

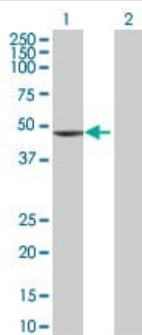
Application	Abreviews	Notes
WB		Use at an assay dependent dilution.

## Images



SDS-PAGE - Cardiac Troponin T overexpression  
293T lysate (whole cell) (ab94042)

ab94042 at 15µg/lane on an SDS-PAGE gel.



Western blot - Cardiac Troponin T overexpression  
293T lysate (whole cell) (ab94042)

**All lanes** : Anti-Cardiac Troponin T antibody ([ab89221](#)) at 1/500 dilution

**Lane 1** : Cardiac Troponin T overexpression 293T lysate (whole cell) (ab94042)

**Lane 2** : Non-transfected lysate.

Lysates/proteins at 25 µg per lane.

### Secondary

**All lanes** : Goat Anti-mouse IgG (H and L) HRP conjugated at 1/2500 dilution

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

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