



# Mouse Anti-Human cTnI (86-90 Region) monoclonal antibody (CABT-L1130)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Reacts equally with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components. Not affected by heparin, phosphorylation, oxidation and troponin complex formation. Recognizes an epitope located between amino acid residues 86 and 90 of cTnI. No cross-reactivity with skeletal muscle troponin I. Reactive with cTnI from human, bovine, porcine, goat, canine, rabbit, and feline. Not reactive with cTnI from rat, mouse or fish.
<b>Target</b>	Human Cardiac Troponin I
<b>Immunogen</b>	Native Troponin Complex
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Purification</b>	> 90% pure (SDS-PAGE). Protein A Chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, WB
<b>Format</b>	Liquid
<b>Buffer</b>	Phosphate Buffered Saline, pH 7.4
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Store at 2–8°C.

# BACKGROUND

## Introduction

Troponin I, also known as TNI, is a 24-29 kDa component of a protein complex on striated muscle thin filaments. Troponin I inhibits the calcium-dependent muscle contraction mediated by Troponins C and T. The expression of cardiac Troponin I (TNNI3) is restricted to cardiac muscle, while TNNI1 and TNNI2 (encoded by distinct genes) are expressed in skeletal muscle. Mutations of cardiac Troponin I are associated with hereditary cardiomyopathy. Human cardiac Troponin I shares 93% amino acid sequence identity with mouse and rat cardiac Troponin I.

## Keywords

TNNI3;troponin I type 3 (cardiac);CMH7;RCM1;cTnI;CMD2A;TNNC1;MGC116817;troponin I, cardiac;Troponin I, cardiac muscle;Cardiac troponin I;familial hypertrophic cardiomyopathy 7

# GENE INFORMATION

## Entrez Gene ID

[7137](#)

## UniProt ID

[P19429](#)