



# Magic™ Anti-Troponin I monoclonal antibody, clone TPC302 (DCAB-TJ201)

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

## PRODUCT INFORMATION

<b>Immunogen</b>	Human Cardiac Troponin I Peptides
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	TPC302
<b>Affinity Constant</b>	KD=0.39nM
<b>Purification</b>	> 90% pure (SDS-PAGE). Protein A Chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA (cap)
<b>Epitope</b>	within aa 59-79
<b>Format</b>	Purified, Liquid
<b>Size</b>	1 mg
<b>Buffer</b>	PBS, pH 7.4
<b>Preservative</b>	0.1% Sodium Azide
<b>Storage</b>	Store at 2-8°C.

## BACKGROUND

## Introduction

Troponin I is a part of the troponin complex. It binds to actin in thin myofilaments to hold the actintropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle. The letter I is given due to its inhibitory character.

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## GENE INFORMATION

Entrez Gene ID	<a href="#">7137</a>
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UniProt ID	<a href="#">P19429</a>
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