



# Magic™ Anti-Troponin I monoclonal antibody, clone TPC102 (DCAB-TJ202)

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

## PRODUCT INFORMATION

Immunogen	Human Cardiac Troponin I Peptides
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	TPC102
Affinity Constant	KD=0.76nM
Purification	> 90% pure (SDS-PAGE). Protein A Chromatography
Conjugate	Unconjugated
Applications	ELISA (cap)
Epitope	within aa 24-40
Format	Purified, Liquid
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	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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