



Mouse Anti-Human cTnI (41-49 Region) monoclonal antibody (CABT-L1129)

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

PRODUCT INFORMATION

Specificity	Recognizes an epitope located between amino acid residues 41 and 49 of cTnI. No cross-reactivity with skeletal muscle troponin I.
Target	Human Cardiac Troponin I
Immunogen	Native Troponin Complex
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Purification	> 90% pure (SDS-PAGE). Protein A Chromatography
Conjugate	Unconjugated
Applications	ELISA
Format	Liquid
Size	1 mg
Buffer	Phosphate Buffered Saline, pH 7.4
Preservative	0.09% Sodium Azide
Storage	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](#)