



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

Specificity	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.
Target	Human Cardiac Troponin I
Immunogen	Native Troponin Complex
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Purification	> 90% pure (SDS-PAGE). Protein A Chromatography
Conjugate	Unconjugated
Applications	ELISA, WB
Format	Liquid
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