



# Anti-Human cTnI (41-49 aa) chimeric Antibody (CABT-L1127)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	This is a full length recombinant chimeric antibodies produced in CHO cells. The use of chimeric antibodies can avoid interference from heterophilic such as human anti-mouse antibodies (HAMA).
<b>Specificity</b>	This is a recombinant chimeric full length antibody consisting of the variable domains from the mouse antibody and the constant domains from the human antibody. This antibody recognizes an epitope located between amino acid residues 41 and 49 of cTnI. No cross-reactivity with skeletal muscle troponin I.
<b>Target</b>	Human Cardiac Troponin I (cTnI) (41-49 Region)
<b>Immunogen</b>	Native Troponin Complex.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Purification</b>	> 95% pure (SDS-PAGE). Protein A Chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, IP, WB
<b>Format</b>	Liquid
<b>Buffer</b>	Phosphate Buffered Saline, pH 7.4
<b>Preservative</b>	0.09% Sodium Azide

**Storage**

Store at 2–8°C.

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## BACKGROUND

**Introduction**

This antibody is a recombinant chimeric full length antibody consisting of the variable domains from the mouse antibody and the constant domains from the human antibody. The use of chimeric antibodies can avoid interference from heterophilic such as human anti-mouse antibodies (HAMA).

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

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## GENE INFORMATION

**Entrez Gene ID**

[7137](#)

**UniProt ID**

[P19429](#)