



Anti-TNNI3 monoclonal antibody, clone C164M (DMAB1505MH)

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

PRODUCT INFORMATION

Product Overview	MAb to Troponin I-Cardiac Monoclonal Antibody to Troponin I-Cardiac (a.a. 1-15)
Antigen Description	Troponin I, cardiac muscle is a protein that in humans is encoded by the TNNI3 gene. Troponin I (TnI) is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle; see also TNNI1. The others are troponin T and troponin C.
Specificity	Reacts with free cardiac troponin I (cTnI) and cTnI forming complexes with other troponin components. Not affected by heparin and phosphorylation. Recognizes an epitope located between amino acid residues 1 and 15 of cTnI. No cross-reactivity with skeletal muscle troponin I.
Immunogen	Human cTnI peptide
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	C164M
Affinity Constant	Not determined
Purification	>90% pure (SDS-PAGE). Protein A chromatography
Conjugate	Unconjugated
Applications	Suitable for use in cTnI immunoassay, cTnI immunoprecipitation, immunohistochemistry, immunoaffinity purification and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use

in such assays should not necessarily be excluded.

Concentration	3.8mg/ml
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	Store at 2–8°C.

GENE INFORMATION

Gene Name	TNNI3 troponin I type 3(cardiac) [Homo sapiens]
Official Symbol	TNNI3
Synonyms	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
Entrez Gene ID	7137
Protein Refseq	NP_000354
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Hypertrophic cardiomyopathy (HCM); Muscle contraction; Cardiac muscle contraction
Function	Actin binding; calcium-dependent protein binding; protein binding; protein kinase binding; troponin C binding; troponin T binding; calcium channel inhibitor activity