



Anti-Troponin I monoclonal antibody, clone N19 (DMAB1683MH)

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 (cTnI)
Antigen Description	Troponin is a complex of three regulatory proteins that is integral to muscle contraction in skeletal and cardiac muscle, but not smooth muscle.
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 13 and 29 of cTnI. No cross-reaction with skeletal muscle troponin I.
Immunogen	Free human cardiac troponin and/or native troponin complex
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	N19
Affinity Constant	Not determined
Purification	>90% pure (SDS-PAGE). Protein A chromatography
Conjugate	Unconjugated
Applications	Suitable for use in ELISA, Western blot and immunohistochemistry. Suitable for use in immunochromatographic applications. 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.

Recommended pairs for sandwich immunoassay:

- **Capture**
[DMAB1683MH](#)
[DMAB1683MH](#)
[DMAB1683MH](#)
[DMAB1683MH](#)
[DMAB1683MH](#)
- **Detection**
[DMAB4460MH](#)
[DMAB4452MH](#)
[DMAB1763MH](#)
[DMAB4456MH](#)
[DMAB4452MH](#)

Format	Purified, Liquid
Concentration	7.9mg/ml (Sigma protein assay kit)
Size	1 mg
Buffer	PBS, pH 7.4
Preservative	0.1% Sodium Azide
Storage	Store at 2–8°C.

GENE INFORMATION

Gene Name	TNNT3 troponin I type 3(cardiac) [Homo sapiens]
Official Symbol	TNNT3
Synonyms	CMH7; RCM1; cTnI; CMD2A; TNNT1; CMD1FF; MGC116817; TNNT3; troponin I type 3 (cardiac); troponin I, cardiac muscle; Cardiac troponin I; familial hypertrophic cardiomyopathy 7; troponin I, cardiac
Entrez Gene ID	7137
Protein Refseq	NP_000354
UniProt ID	P19429
Chromosome Location	19q13.4
Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction,

conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem; Striated Muscle Contraction, organism-specific biosystem

Function

actin binding; calcium channel inhibitor activity; calcium-dependent protein binding; protein binding; protein domain specific binding; protein kinase binding; troponin C binding; troponin T binding
