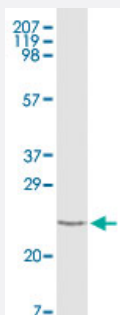


TNNI3 monoclonal antibody, clone 3A10A12, 5C3A7

Catalog # MAB8299

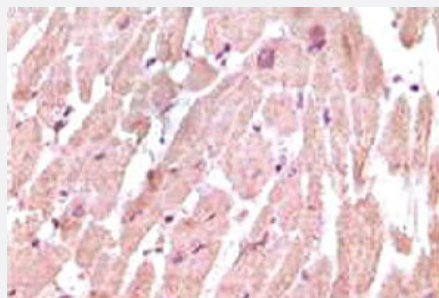
Size 100 uL

Applications



Western Blot (Recombinant protein)

Western blot analysis using TNNI3 monoclonal antibody, clone 3A10A12, 5C3A7 (Cat # MAB8299) against truncated TNNI3 recombinant protein.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human normal cardiac muscle tissue showing cytoplasmic localization, using TNNI3 monoclonal antibody, clone 3A10A12, 5C3A7 (Cat # MAB8299) with DAB staining.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant TNNI3.
Immunogen	Recombinant protein corresponding to truncated human TNNI3.
Host	Mouse
Reactivity	Human
Form	Liquid

Recommend Usage	Western Blot (1:200-1:1000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:100-1:1000) Immunohistochemistry (Frozen sections) (1:200-1:1000) ELISA (1:10000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (50% glycerol, 0.01% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Recombinant protein)

Western blot analysis using TNNI3 monoclonal antibody, clone 3A10A12, 5C3A7 (Cat # MAB8299) against truncated TNNI3 recombinant protein.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human normal cardiac muscle tissue showing cytoplasmic localization, using TNNI3 monoclonal antibody, clone 3A10A12, 5C3A7 (Cat # MAB8299) with DAB staining.

- Immunohistochemistry (Frozen sections)

- Enzyme-linked Immunoabsorbent Assay

Gene Info — TNNI3

Entrez GeneID	7137
Gene Name	TNNI3
Gene Alias	CMD2A, CMH7, MGC116817, RCM1, TNNC1, cTnI
Gene Description	troponin I type 3 (cardiac)
Omim ID	115210 191044
Gene Ontology	Hyperlink

Gene Summary

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). [provided by RefSeq]

Other Designations

familial hypertrophic cardiomyopathy 7|troponin I, cardiac

Publication Reference

- [Cardiac troponin I. A marker with high specificity for cardiac injury.](#)

Adams JE 3rd, Bodor GS, Davila-Roman VG, Delmez JA, Apple FS, Ladenson JH, Jaffe AS.

Circulation 1993 Jul; 88(1):101.

- [New monoclonal antibodies as probes for human cardiac troponin I: epitopic analysis with synthetic peptides.](#)

Larue C, Defacque-Lacquement H, Calzolari C, Le Nguyen D, Pau B.

Molecular Immunology 1992 Feb; 29(2):271.

Application: RIA, Mouse, Mouse serum, Peptides, Recombinant proteins

- [Cardiac specific troponin-I release in canine experimental myocardial infarction: development of a sensitive enzyme-linked immunoassay.](#)

Cummins B, Cummins P.

Journal of Molecular and Cellular Cardiology 1987 Oct; 19(10):999.

Application: ELISA, Dog, Dog heart, Dog skeletal tissues

Pathway

- [Cardiac muscle contraction](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)

Disease

- [Alzheimer disease](#)
- [Cardiomegaly](#)

- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Death](#)
- [Diabetes Complications](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypertrophy](#)
- [Lipid Metabolism](#)
- [Metabolic Syndrome X](#)
- [Mitochondrial Myopathies](#)
- [Neoplasms](#)
- [Osteoporosis](#)
- [Tachycardia](#)