

RecomAb™

TNNI3 recombinant monoclonal antibody, clone scFv 180

Catalog # RAB03118

Size 200 ug

Applications



Western Blot

Western blot analysis of human heart lysate with TNNI3 recombinant monoclonal antibody, clone scFv 180 (Cat # RAB03118).

Immunofluorescence

Immunofluorescent staining of HeLa cells with TNNI3 recombinant monoclonal antibody, clone scFv 180 (Cat # RAB03118).

Immunofluorescence analysis of paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton and stained with the chimeric mouse IgG1 version of RAB03118 at 10 ug/ml for 1h followed by Alexa Fluor® 488 secondary antibody (2 ug/ml)-showing cytoplasmic staining. The nuclear stain is DAPI (blue). Panels show from left-right- top-bottom RAB03118- DAPI- merged channels and an isotype control. The isotype control was stained with an anti-unknown specificity antibody followed by Alexa Fluor® 488 secondary antibody.

Specification

Product Description	Mouse recombinant monoclonal antibody raised against human TNNI3.
Antibody Species	Mouse
Immunogen	Original antibody is raised against a synthetic peptide "KISASRKLQLKT" corresponding to human TNNI3.
Reactivity	Human

Form	Liquid
Isotype	IgG1 lambda
Recommend Usage	Immunofluorescence Surface Plasmon Resonance Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS with 0.02% Proclin 300
Storage Instruction	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

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- Surface Plasmon Resonance

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

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](#)