

Anti-TNNI3 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 24 kDa. Actual: 24 kDa.
Purification:	Protein A purified

Applications

1. Blank control: K562. Primary Antibody (green line): Rabbit Anti-TNNI3 antibody (TMAB-01876)

Dilution: 1 µg/10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-FITC

Dilution: 1 µg/test.

Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

2. Sample:

Lane 1: Heart (Mouse) Lysate at 40 µg

Lane 2: Heart (Rat) Lysate at 40 µg

Primary: Anti-TNNI3 (TMAB-01876) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 28 kDa

Observed band size: 28 kDa

Verified Activity:

3. Paraformaldehyde-fixed, paraffin embedded (mouse heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TNNI3) Polyclonal Antibody, Unconjugated (TMAB-01876) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

4. Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (TNNI3) Polyclonal Antibody, Unconjugated (TMAB-01876) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

5. Sample:

heart (rat) lysate at 40 µg

Primary: Anti-TNNI3 (TMAB-01876) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kDa

Observed band size: 24 kDa

6. Sample:

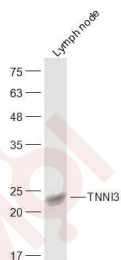
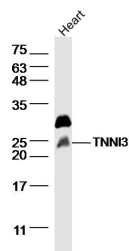
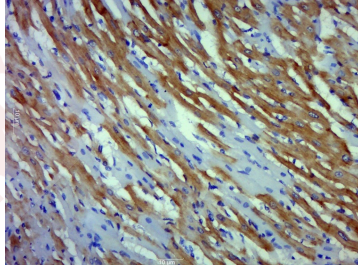
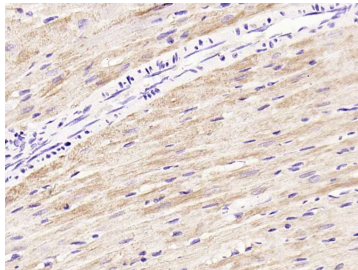
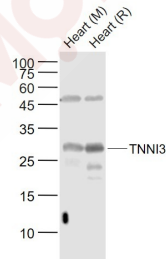
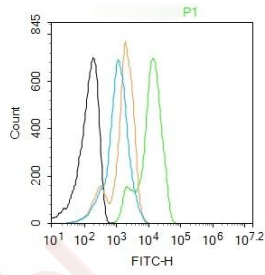
Lymphnode (Rat) Cell Lysate at 40 µg

Primary: Anti-TNNI3 (TMAB-01876) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 24 kDa

Observed band size: 24 kDa



Application: FCM,IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2ug/Test

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human TNNI3

Antigen Species: Human

Gene ID: 7137

Uniprot ID: P19429

Synonyms: Tni;TNNI 3;MGC116817;troponin I, cardiac 3;CMD2A;TNNC1;TNNI3;Troponin I, cardiac muscle; Cardiac Troponin I;Troponin I cardiac muscle;Troponin I cardiac;RCM1;Tn1;cTnI;Familial hypertrophic cardiomyopathy 7;Ttroponin I type 3(cardiac);cardiac muscle;Troponin I;CMH7; CMD1FF;TroponinI;Cardiomyopathy, familial hypertrophic, 7, included;Troponin I type 3 cardiac;Troponin I cardiac muscle isoform;TNN I3;TNNC 1

Biology Area: Troponin,Troponin

Research Background

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, Jul 2008]

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