

## Anti-TnTc Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow)
Molecular Weight:	Theoretical: 36 kDa. Actual: 36 kDa.
Purification:	Protein A purified

## Applications

## 1. Sample:

H9C2 (Rat) Cell Lysate at 30 µg

Primary: Anti-alpha smooth muscle Actin (TMAB-01877) at 1/500 dilution

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

Predicted band size: 36 kDa

Observed band size: 36 kDa

## 2. Blank control: U-2OS.

Primary Antibody (green line): Rabbit Anti-TNNT2 antibody (TMAB-01877)

Dilution: 1 µg/10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody: Goat anti-rabbit IgG-AF647

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 -20°C. 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.

## Verified Activity:

3. Cell: Neonatal rat ventricular cardiomyocytes; Dilution: 1:400; Incubation: Anti-Cardiac Troponin T Antibody, unconjugated (TMAB-01877); DAPI was used to stain the cell nucleus. The image is provided by Tongji University.

## 4. Positive control: H9C2 cells

Concentration: 2 µg/10<sup>6</sup> cells

Incubation conditions: Avoid light, 30 minutes on the ice.

## 5. Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-TNNT2 Polyclonal Antibody, Unconjugated (TMAB-01877) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody and DAb staining.

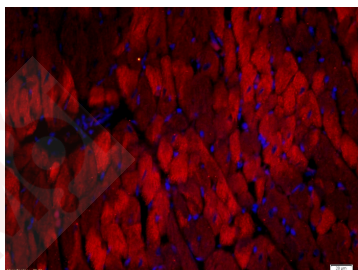
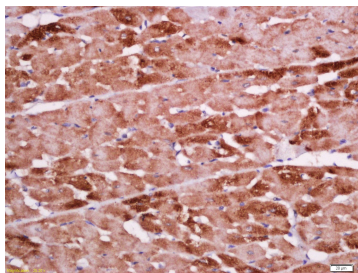
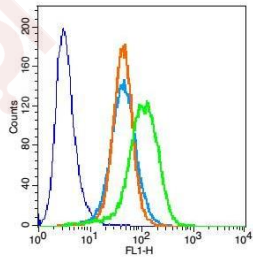
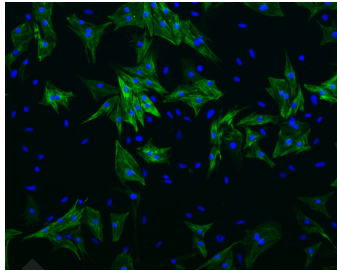
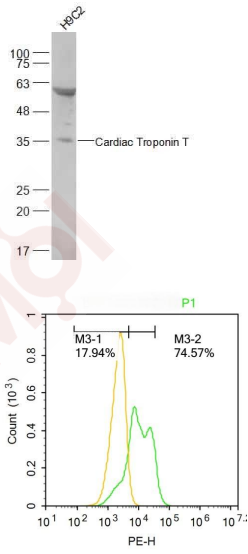
## 6. Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

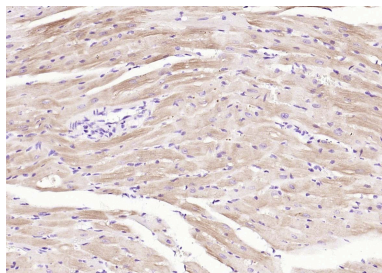
Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Blocking buffer (normal goat serum) at 37°C for 20 min;

Incubation: Anti-TNNT2 Polyclonal Antibody, Unconjugated 1:500, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml, blue) was used to stain the cell nucleus.

7. 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 (Cardiac Troponin T) Polyclonal Antibody, Unconjugated (TMAB-01877) at 1:200 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.





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

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; ICC/IF: 1:100-500; IF: 1:100-500; FCM: 1µg/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 Cardiac Troponin T

Antigen Species: Human

Gene ID: 7139

Uniprot ID: P45379

Synonyms: Troponin T, cardiac muscle;cardiac muscle;Cardiac muscle troponin T (cTnT);Tnnt2;TnTc

Biology Area: Cardiomyocytes,Troponin,Troponin,Myogenesis

### Research Background

The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq].

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