



Mouse Monoclonal Antibody **Cardiac Troponin I** conjugated to Sepharose Beads

CatalogNo: **ANT8186-M**

Size 200ul

Storage Store at 4 °C for frequent use

#### Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

#### **Cardiac Troponin I (ANT0015R) Rabbit mAb**

Formulation: Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg ANaN3.

#### Host Species

- Rabbit
- Human, Mouse, Rat,

#### Reactivity

- WB, IHC, IF, IP, ELISA

#### Applications

#### MW

- 24kD (Calculated)
  - IgG, Kappa
- 24kD (Observed)

#### Isotype

## **Recommended Dilution Ratios**

### **IP**

## **Basic Information**

#### Clonality

Monoclonal

Clone Number      ANT0015R

Immunogen Information

Specificity      Endogenous

Gene name      TNNI3

Protein Name      Troponin I cardiac muscle

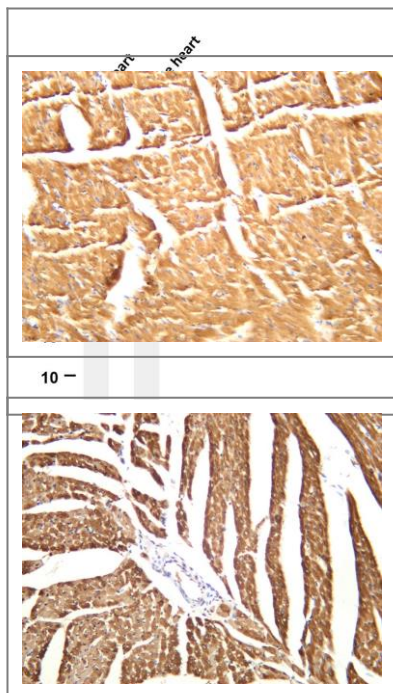
Organism	Gene ID	UniProt ID
Human	<a href="#">7137</a> ;	<a href="#">P19429</a> ;
Mouse	<a href="#">21954</a> ;	<a href="#">P48787</a> ;
Rat	<a href="#">29248</a> ;	<a href="#">P23693</a> ;

Cellular Localization      Cytoplasm

Tissue specificity      Heart,Heart muscle,PCR rescued clones,

**Function**      Disease:Defects in TNNI3 are the cause of cardiomyopathy dilated type 2A (CMD2A) [MIM:611880]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.,Disease:Defects in TNNI3 are the cause of cardiomyopathy familial hypertrophic type 7 (CMH7) [MIM:191044]. Familial hypertrophic cardiomyopathy is a hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death.,Disease:Defects in TNNI3 are the cause of cardiomyopathy familial restrictive type 1 (RCM1) [MIM:115210]. RCM1 is an heart muscle disorder characterized by impaired filling of the ventricles with reduced diastolic volume, in the presence of normal or near normal wall thickness and systolic function.,Function:Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity.,similarity:Belongs to the troponin I family.,subunit:Binds to actin and tropomyosin. Interacts with TRIM63.,

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cardiac Troponin I (ANT0015R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: Rat heart Lane 2: Mouse heart Predicted band size: 24kDa Observed band size: 24kDa  
Mouse cardiac muscle was stained with anti-Cardiac Troponin I (ANT0015R) rabbit antibody

Rat cardiac muscle was stained with anti-Cardiac Troponin I (ANT0015R) rabbit antibody

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