

Cardiac Troponin I (TNNI3) Rabbit pAb

Catalog No.: A0152 2 Publications

Basic Information

Observed MW

28kDa

Calculated MW

24kDa

Category

Primary antibody

Applications

ELISA, WB, IF/ICC, IP

Cross-Reactivity

Mouse, Rat

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). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.

Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for
400µg-600µg extracts of
whole cells

Immunogen Information

Gene ID

7137

Swiss Prot

P19429

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-210 of human Cardiac Troponin I (TNNI3) (NP_000354.4).

Synonyms

CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; Cardiac Troponin I (TNNI3)

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

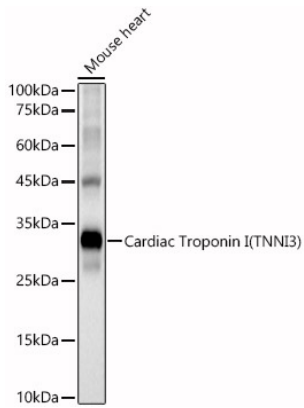
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of lysates from Mouse heart, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.

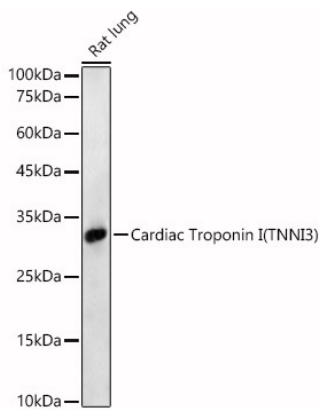
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 20s.



Western blot analysis of lysates from Rat lung, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.

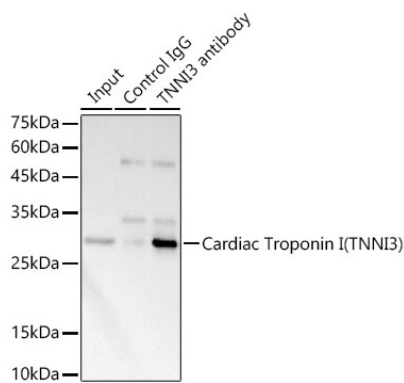
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

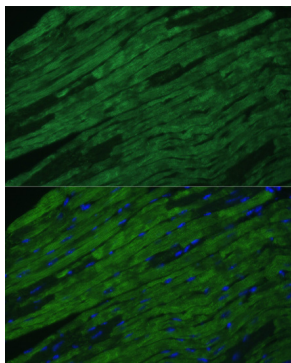
Detection: ECL Basic Kit (RM00020).

Exposure time: 60s.



Immunoprecipitation analysis of 600 µg extracts of Mouse heart cells using 3 µg Cardiac Troponin I (TNNI3) antibody (A0152). Western blot was performed from the immunoprecipitate using Cardiac Troponin I (TNNI3) antibody (A0152) at a dilution of 1:1000.

Validation Data



Immunofluorescence analysis of paraffin-embedded mouse heart using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.