

TNNI3 Rabbit pAb

Catalog No.: A0152

Basic Information

Catalog No.

A0152

Observed MW

30kDa

Calculated MW

24kDa

Category

Primary antibody

Applications

WB, IF

Cross-Reactivity

Mouse, Rat

Recommended Dilutions

| | |
|-----------|----------------|
| WB | 1:500 - 1:2000 |
| IF | 1:50 - 1:200 |

Contact

 | www.abclonal.com

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).

Immunogen Information

| | |
|----------------|-------------------|
| Gene ID | Swiss Prot |
| 7137 | P19429 |

Immunogen

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

Synonyms

TNNI3;CMD1FF;CMD2A;CMH7;RCM1;TNNC1;cTnI;troponin I3

Product Information

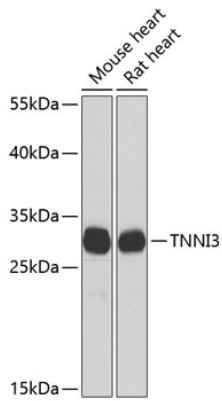
| | | |
|---------------|----------------|-----------------------|
| Source | Isotype | Purification |
| Rabbit | IgG | Affinity purification |

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 extracts of various cell lines, using TNNI3 antibody (A0152) at 1:1000 dilution.

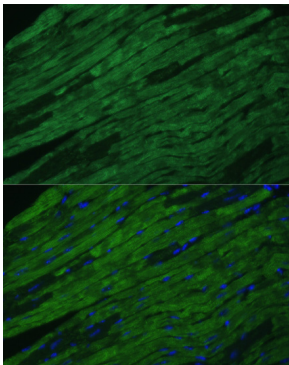
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25ug per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 5s.



Immunofluorescence analysis of mouse heart cells using TNNI3 antibody (A0152) at dilution of 1:100. Blue: DAPI for nuclear staining.