

## Mouse TNNI3 Monoclonal Antibody | anti-TNNI3 antibody

TNNI3 antibody

|                               |                      |                                                           |
|-------------------------------|----------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA108281</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunohistochemistry</b> |
|-------------------------------|----------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

TNNI3; Monoclonal Antibody; TNNI3 antibody; Monoclonal TNNI3; Anti-TNNI3; Troponin I Type 3; CMH7; MGC116817; TNNC1; cTnI; TNNI 3; TNNI-3; anti-TNNI3 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Clone Number                                    | 4A3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                             | TNNI3 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                     |
| Concentration                                   | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence Length                                 | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for anti-TNNI3 antibody | WB (Western Blot), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Biological Significance                         | 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. TNNI3 is the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. |
| Cross-Reactivity                                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Immunogen                                       | TNNI3 antibody was raised in mouse using a recombinant protein expressed in E Coli corresponding to amino acids 1-210 of human TNNI3 as the immunogen.                                                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                         | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                     |

### IMAGES



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant TNNI3 protein (Right) or empty vector (Left) detected with TNNI3 antibody



#### IHC (Immunohistochemistry)

Immunohistochemical analysis of TNNI3 protein in paraffin embedded Human pancreas tissue using TNNI3 antibody

ADDITIONAL INFORMATION

|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| Related Product Information for anti-TNNI3 antibody | Mouse monoclonal TNNI3 antibody |
| Product Categories/Family for anti-TNNI3 antibody   | <a href="#">Cardiac Markers</a> |

NCBI AND UNIPROT INFORMATION

|                                  |                                                 |
|----------------------------------|-------------------------------------------------|
| NCBI GI #                        | <a href="#">49456923</a>                        |
| NCBI GeneID                      | <a href="#">7137</a>                            |
| UniProt Accession #              | <a href="#">Q6FGX2</a> ; <a href="#">P19429</a> |
| Molecular Weight                 | 24,008 Da                                       |
| NCBI Official Full Name          | TNNI3                                           |
| NCBI Official Synonym Full Names | troponin I type 3 (cardiac)                     |
| NCBI Official Symbol             | TNNI3                                           |
| NCBI Official Synonym Symbols    | CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF          |
| NCBI Protein Information         | troponin I, cardiac muscle                      |
| UniProt Protein Name             | TNNI3 protein                                   |
| UniProt Gene Name                | <b>TNNI3</b>                                    |
| UniProt Entry Name               | Q6FGX2_HUMAN                                    |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/tnni3-antibody-clone-4a3-western-blot-immunohistochemistry-elisa/108281>