

## Rabbit Troponin C Polyclonal Antibody | anti-TNNC1 antibody

Anti-Troponin C Antibody, Rabbit Polyclonal

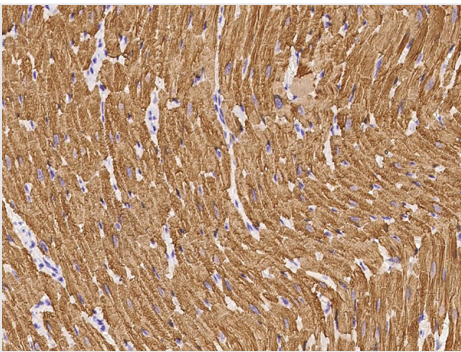
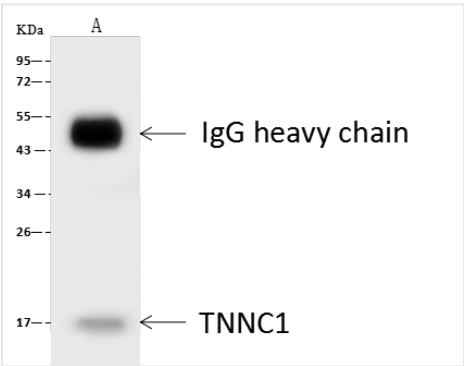
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                     |
|-----------|--------|-------------------|--------------------------------------------------|
| AAA255287 | Rabbit | Human, Cynomolgus | Immunoprecipitation, Immunohistochemistry, ELISA |

### PRODUCT SYNONYMS

Troponin C; Polyclonal Antibody; Anti-Troponin C Antibody; Rabbit Polyclonal; Troponin C/TNNC1 Antibody; Rabbit PAb; Antigen Affinity Purified; troponin C type 1 (slow); Anti-CMD1Z Antibody; Anti-CMH13 Antibody; Anti-TN-C Antibody; Anti-TNC Antibody; Anti-TNNC Antibody; anti-TNNC1 antibody

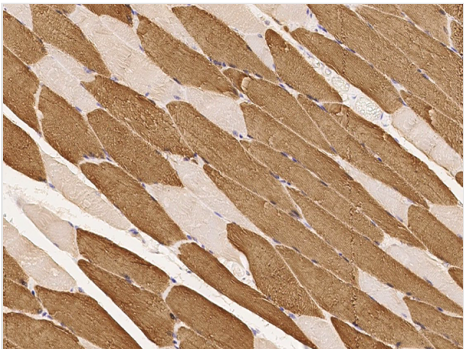
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                       |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                      | Human, Cynomolgus                                                                                                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                     | Human Troponin C                                                                                                                                                                                                                                                      |
| Purity/Purification                             | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                     | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-TNNC1 antibody | IP (Immunoprecipitation), IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                           |
| Immunogen                                       | Recombinant Human Troponin C/TNNC1 Protein                                                                                                                                                                                                                            |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                     | Produced in rabbits immunized with purified, recombinant Human Troponin C/TNNC1 (rh Troponin C/TNNC1). Troponin C/TNNC1 specific IgG was purified by Human Troponin C/TNNC1 affinity chromatography.                                                                  |
| Preparation and Storage                         | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**IP (Immunoprecipitation)**  
TNNC1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate, 4 uL anti-TNNC1 rabbit polyclonal antibody and 60 ug of Immnomagnetic beads Protein A/G. Primary antibody: Anti-TNNC1 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 18 kDa. Observed band size: 16 kDa.

**IHC (Immunohistochemistry)**  
Immunochemical staining TNNC1 in cynomolgus heart with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



**IHC (Immunohistochemistry)**  
Immunochemical staining TNNC1 in human skeletal muscle with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-TNNC1 antibody | Troponin I, also known as TNNC1, is part of the troponin complex. This complex contains 3 subunits: troponin I (TnI), troponin T (TnT) and troponin C (TnC). Troponin I is the inhibitory subunit, blocking actin-myosin interactions and thereby mediating striated muscle relaxation. It binds to actin in thin myofilaments to hold the actin-tropomyosin complex in place. Because of it myosin cannot bind actin in relaxed muscle. When calcium binds to the Troponin C it causes conformational changes which lead to dislocation of troponin I and finally tropomyosin leaves the binding site for myosin on actin leading to contraction of muscle. |
| References                                          | Kalaji FR. et al., 2012, Saudi J Kidney Dis Transpl. 23 (5): 939-45. Wijnker PJ. et al., 2013, Am J Physiol Heart Circ Physiol. 304 (2): H260-8. Solaro RJ. et al., 2013, Circ Res. 112 (2): 355-66.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

NCBI AND UNIPROT INFORMATION

|                           |                                               |
|---------------------------|-----------------------------------------------|
| NCBI GI #                 | 4507615                                       |
| NCBI GeneID               | 7134                                          |
| NCBI Accession #          | NP_003271.1                                   |
| NCBI GenBank Nucleotide # | NM_003280.2                                   |
| UniProt Accession #       | P63316; O14800; P02590; P04463                |
| Molecular Weight          | 18,020 Dalton                                 |
| NCBI Official Full Name   | troponin C, slow skeletal and cardiac muscles |

|                                  |                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Official Synonym Full Names | troponin C type 1 (slow)                                                                                                             |
| NCBI Official Symbol             | TNNC1                                                                                                                                |
| NCBI Official Synonym Symbols    | TNC; TN-C; TNNC; CMD1Z; CMH13                                                                                                        |
| NCBI Protein Information         | troponin C, slow skeletal and cardiac muscles; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C; troponin C1, slow |
| UniProt Protein Name             | Troponin C, slow skeletal and cardiac muscles                                                                                        |
| UniProt Gene Name                | <b>TNNC1</b>                                                                                                                         |
| UniProt Synonym Gene Names       | TNNC; TN-C                                                                                                                           |
| UniProt Entry Name               | TNNC1_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/polyclonal/troponin-c-antibody-immunoprecipitation-immunohistochemistry-elisa/255287>