

Rabbit anti-Human, Mouse TNNC1 Polyclonal Antibody | anti-TNNC1 antibody

TNNC1 Polyclonal Antibody

CATALOG # AAA37324	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

TNNC1; Polyclonal Antibody; TNNC1 Polyclonal Antibody; CMD1Z; TNC; TNNC; anti-TNNC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	161
Applicable Applications for anti-TNNC1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human TNNC1
Calculated Molecular Weight	18kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES



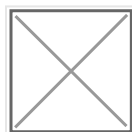
IF (Immunofluorescence)

Immunofluorescence analysis of U2OS cells using TNNC1 antibody. Blue: DAPI for nuclear staining.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon carcinoma using TNNC1 antibody at dilution of 1:100 (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using TNNC1 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TNNC1 antibody	Troponin, working in conjunction with tropomyosin, functions as a molecular switch, regulating muscle contraction in response to changes in the intracellular Ca2+ concentration. Troponin consists of three subunits: the Ca2+-binding subunit troponin C (TnC), the tropomyosin-binding subunit troponin T (TnT), and the inhibitory subunit troponin I (TnI) (1). In response to beta-adrenergic stimulation of the heart, Ser23 and Ser24 of TnI (cardiac) are phosphorylated by PKA and PKC. This phosphorylation stimulates a conformational change of the regulatory domain of TnC, reduces the association between TnI and TnC, and decreases myofilament Ca2+ sensitivity by reducing the Ca2+ binding affinity of TnC (1-3).
Product Categories/Family for anti-TNNC1 antibody	Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	54042075
NCBI GeneID	7134
UniProt Accession #	P63316; O14800; P02590; P04463
Molecular Weight	161
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; troponin C1, slow; cardiac troponin C; slow twitch skeletal/cardiac muscle troponin C
UniProt Protein Name	Troponin C, slow skeletal and cardiac muscles
UniProt Gene Name	TNNC1
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/tnn1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/37324>