

Rabbit Troponin C Polyclonal Antibody | anti-TNNC1 antibody

Anti-Troponin C Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255057	Rabbit	Mouse, Human Predicted to React with: Bovin, Chick, Pig, Rabbit (Species predicted to react based on 100% sequence homology)	Immunohistochemistry

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-AI874626 Antibody; Anti-cTnC Antibody; Anti-cTnI Antibody; Anti-TnC Antibody; Anti-tncc Antibody; anti-TNNC1 antibody

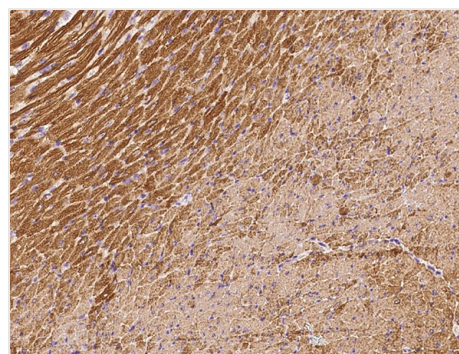
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Human Predicted to React with: Bovin, Chick, Pig, Rabbit (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mouse Troponin C
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TNNC1 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Mouse Troponin C/TNNC1
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Mouse Troponin C/TNNC1, and purified by antigen 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.

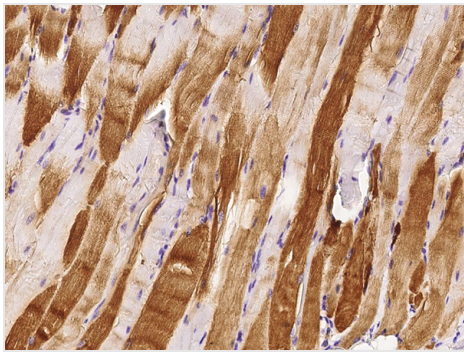
IMAGES


IHC (Immunohistochemistry)

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


IHC (Immunohistochemistry)

Immunochemical staining TNNC1 in mouse heart with rabbit polyclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.



IHC (Immunohistochemistry)
 Immunochemical staining TNNC1 in mouse 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 #	6678369
NCBI GeneID	21924
NCBI Accession #	NP_033419.1
NCBI GenBank Nucleotide #	NM_009393.2
UniProt Accession #	P19123
Molecular Weight	18,421 Da
NCBI Official Full Name	troponin C, slow skeletal and cardiac muscles
NCBI Official Synonym Full Names	troponin C, cardiac/slow skeletal
NCBI Official Symbol	Tnnc1
NCBI Official Synonym Symbols	TnC; cTnC; cTnI; tncc; AI874626
NCBI Protein Information	troponin C, slow skeletal and cardiac muscles; TN-C
UniProt Protein Name	Troponin C, slow skeletal and cardiac muscles
UniProt Gene Name	Tnnc1
UniProt Synonym Gene Names	Tncc; TN-C
UniProt Entry Name	TNNC1_MOUSE

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.