TNNI3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TNNI3, Polyclonal Antibody
Full Product Name	TNNI3
Product Gene Name	anti-TNNI3 antibody
Product Synonym Names	TNNC1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Already dissolved in sterile H2O with 1% BSA and 0.02% NaN3 and 50% Glycerol.
Purity/Purification	Purified By Antigen Affinity Column
OMIM	115210
3D Structure	ModBase 3D Structure for P19429
Immunogen	A peptide corresponding to C terminal of human TNNI3 protein.
Cellular Localization	Cytoplasm
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-TNNI3 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-TNNI3 antibody	ELISA: 1:20,000-80,000 IHC: 1:100-500
Related Product Information for anti-TNNI3 antibody	MBS8560350 is an antibody targeting TNNI3. Reactive in Human. Host: Rabbit. Troponin I, cardiac muscle
Product References and Citations for anti-TNNI3 antibody	Ky B, Putt M, Sawaya H, et al. Early increases in multiple biomarkers predict subsequent cardiotoxicity in patients with breast cancer treated with doxorubicin, taxanes, and trastuzumab. J. Am. Coll. Cardiol. 63(8):809-816 (2014)
Other Notes	Small volumes of anti-TNNI3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNNI3. It may not necessarily be applicable to this product.

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
UniProt Primary Accession #	P19429
UniProt Related Accession #	P19429

GenBank Nucleotide #	NP_000354.4
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I3, cardiac type
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Synonym Protein Names	Cardiac troponin I
Protein Family	Troponin
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1
UniProt Entry Name	TNNI3_HUMAN
NCBI Protein Information	troponin I, cardiac muscle
NCBI Summary for TNNI3	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). [provided by RefSeq, Jul 2008]
UniProt Comments for TNNI3	TNNI3: Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Binds to actin and tropomyosin. Interacts with TRIM63. Interacts with STK4/MST1. Belongs to the troponin I family. Protein type: Motility/polarity/chemotaxis; Motor; Actin-binding Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: sarcomere; troponin complex; cytosol Molecular Function: troponin T binding; protein domain specific binding; troponin C binding; protein binding; metal ion binding; calcium channel inhibitor activity; actin binding; protein kinase binding; calcium-dependent protein binding Biological Process: regulation of smooth muscle contraction; cellular calcium ion homeostasis; heart contraction; regulation of systemic arterial blood pressure by ischemic conditions; heart development; ventricular cardiac muscle morphogenesis; vasculogenesis; negative regulation of ATPase activity; muscle filament sliding; cardiac muscle contraction Disease: Cardiomyopathy, Dilated, 1ff; Cardiomyopathy, Familial Restrictive, 1; Cardiomyopathy, Familial Hypertrophic, 7; Cardiomyopathy, Dilated, 2a
Research Articles on TNNI3	**1.** serum level correlated with mean platelet volume
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