TnI Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	TnI, Monoclonal Antibody
Full Product Name	Anti-TnI(Detection) Antibody
Product Gene Name	anti-TnI antibody
Clonality	Monoclonal
Isotype	IgG1
Host	Mouse
Form/Format	Liquid
Purity/Purification	Affinity purified
Concentration	100ug/100ul (lot specific)
Specificity	Anti-TnI recognizes recombinant protein TnI
Preparation and Storage	This product is stable for several weeks at 4 degree C as an undiluted liquid. Dilute only prior to immediate use. For extended storage, aliquot contents and freeze at -20 degree C or below. Avoid cycles of freezing and thawing. Expiration date is one (1) year from date of receipt.
Molecular Weight	24,008 Da
OMIM	115210
3D Structure	ModBase 3D Structure for P19429
Raised In	Purified mouse monoclonal antibody generated using E.coli expressed recombinant protein TnI as immunogen.
Storage Buffer	citrate-tris-HCl buffer pH7.0 with 0.02% Proclin 300.
Immunogen	Recombinant protein corresponding to full length TnI
Applications Tested/Suitable for anti-TnI antibody	ELISA (EIA)
Related Product Information for anti-TnI antibody	MBS415095 is an antibody targeting TnI. Also known as Anti-TnI(Detection) Antibody. Host: Mouse.
Product References and Citations for anti-TnI antibody	None
Other Notes	Small volumes of anti-TnI 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 TnI. It may not necessarily be applicable to this product.

NCBI GI #	37427
NCBI GeneID	7137
NCBI Accession #	CAA38102.1
UniProt Primary Accession #	P19429

UniProt Related Accession #	P19429
NCBI Official Full Name	Human mRNA for cardiac troponin I
NCBI Official Synonym Full Names	troponin I type 3 (cardiac)
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 Entry Name	TNNI3_HUMAN
NCBI Protein Information	troponin I, cardiac muscle; cardiomyopathy, dilated 2A (autosomal recessive)
NCBI Summary for TnI	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 TnI	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: Actin-binding; Motility/polarity/chemotaxis; Motor Chromosomal Location of Human Ortholog: 19q13.4 Cellular Component: sarcomere; troponin complex; cytosol Molecular Function: troponin T binding; troponin C binding; protein domain specific binding; protein binding; metal ion binding; calcium channel inhibitor activity; actin binding; calcium-dependent protein binding; protein kinase 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 TnI	**1.** Development of pathological hypertrophy did not occur in mice expressing both Tm180 and TnI-PP.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-antibody/tni/415095