TNNI2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TNNI2, Polyclonal Antibody
Full Product Name	TNNI2 (Troponin I, Fast Skeletal Muscle, Troponin I, Fast-twitch Isoform) (MaxLight 550)
Product Gene Name	anti-TNNI2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight550.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human TNNI2. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	21,355 Da
OMIM	gene 601680
3D Structure	ModBase 3D Structure for P48788
Immunogen	Full length human TNNI2, aa1-182 (NP_003273.1).
Immunogen Sequence	MGDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAEKQNYLAEHCPPLHIPGSMSEVQELCKQLHAKIDAAEEEKYDMEVRVQKTSKELEDMNQKL
Conjugate	MaxLight550
Note	Preservative Free
Product Categories/Family for anti-TNNI2 antibody	Antibodies; Cardiac Markers
Applications Tested/Suitable for anti-TNNI2 antibody	Western Blot (WB)
Application Notes for anti-TNNI2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-TNNI2 antibody	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including tro dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen rece cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq].

Other Notes	Small volumes of anti-TNNI2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TNNI2 purchase	MBS6396804 is an antibody targeting TNNI2. Also known as TNNI2 (Troponin I, Fast Skeletal Muscle, Troponin I, Fast-twitch Isoform) (MaxLight 550).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNNI2. It may not necessarily be applicable to this product.

NCBI GI #	4507621
NCBI GeneID	7136
NCBI Accession #	NP_003273.1
UniProt Primary Accession #	P48788
UniProt Secondary Accession #	A6NIV8; A6NJU5
UniProt Related Accession #	P48788
GenBank Nucleotide #	NM_003282
NCBI Official Full Name	troponin I, fast skeletal muscle isoform 1
NCBI Official Synonym Full Names	troponin I type 2 (skeletal, fast)
NCBI Official Symbol	TNNI2
NCBI Official Synonym Symbols	DA2B; FSSV; fsTnI; AMCD2B
UniProt Protein Name	Troponin I, fast skeletal muscle
UniProt Synonym Protein Names	Troponin I, fast-twitch isoform
Protein Family	Troponin
UniProt Gene Name	TNNI2
UniProt Entry Name	TNNI2_HUMAN
NCBI Protein Information	troponin I, fast skeletal muscle; troponin I fast twitch 2; troponin I, skeletal, fast; troponin I, fast-twitch isoform; troponin I, fast-twitch skeletal muscle isoform
NCBI Summary for TNNI2	This gene encodes a fast-twitch skeletal muscle protein, a member of the troponin I gene family, and a component of the troponin complex including troponin T, troponin C and troponin I subunits. The troponin complex, along with tropomyosin, is responsible for the calcium-dependent regulation of striated muscle contraction. Mouse studies show that this component is also present in vascular smooth muscle and may play a role in regulation of smooth muscle function. In addition to muscle tissues, this protein is found in corneal epithelium, cartilage where it is an inhibitor of angiogenesis to inhibit tumor growth and metastasis, and mammary gland where it functions as a co-activator of estrogen receptor-related receptor alpha. This protein also suppresses tumor growth in human ovarian carcinoma. Mutations in this gene cause myopathy and distal arthrogryposis type 2B. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Mar 2009]

UniProt Comments for TNNI2	TNNI2: Troponin I is the inhibitory subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Defects in TNNI2 are a cause of distal arthrogryposis type 2B (DA2B); also known as arthrogryposis multiplex congenita, distal, type 2B (AMCD2B). DA2B is a form of inherited multiple congenital contractures. Affected individuals have vertical talus, ulnar deviation in the hands, severe camptodactyly, and a distinctive face characterized by a triangular shape, prominent nasolabial folds, small mouth and a prominent chin. Belongs to the troponin I family. Protein type: Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 11p15.5 Cellular Component: troponin complex; cytosol; nucleus Molecular Function: troponin T binding; protein binding; actin binding Biological Process: skeletal muscle contraction; regulation of muscle contraction; positive regulation of transcription, DNA-dependent; muscle filament sliding Disease: Arthrogryposis, Distal, Type 2b
Research Articles on TNNI2	**1.** report the first TNNI2 mutation in classical FSS and describe an atypical adult FSS case with only facial contractures resulting from somatic mosaicism
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