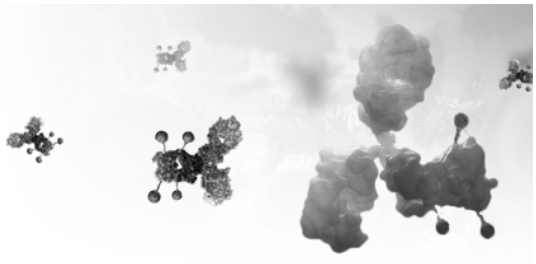

Human TNNT2 peptide (DAG-P0291)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, which is located on the thin filament of striated muscles and regulates muscle contraction in response to alterations in intracellular calcium ion concentration. Mutations in this gene have been associated with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts for this gene undergo alternative splicing that results in many tissue-specific isoforms, however, the full-length nature of some of these variants has not yet been determined. [provided by RefSeq, Jul 2008]
Specificity	Heart. The fetal heart shows a greater expression in the atrium than in the ventricle, while the adult heart shows a greater expression in the ventricle than in the atrium. Isoform 6 predominates in normal adult heart. Isoforms 1, 7 and 8 are expressed in
Conjugate	Unconjugated
Sequence Similarities	Belongs to the troponin T family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	TNNT2 troponin T type 2 (cardiac) [Homo sapiens (human)]
Official Symbol	TNNT2
Synonyms	TNNT2; troponin T type 2 (cardiac); CMH2; RCM3; TnTC; cTnT; CMD1D; CMPD2; LVNC6; troponin T, cardiac muscle; troponin T2, cardiac; cardiomyopathy, hypertrophic 2;

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	cardiomyopathy, dilated 1D (autosomal dominant);
Entrez Gene ID	7139
mRNA Refseq	NM_000364.3
Protein Refseq	NP_000355.2
UniProt ID	P45379
Chromosome Location	1q32
Pathway	Adrenergic signaling in cardiomyocytes, organism-specific biosystem; Adrenergic signaling in cardiomyocytes, conserved biosystem; Cardiac Progenitor Differentiation, organism-specific biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy (HCM), co
Function	contributes_to ATPase activity; actin binding; structural constituent of cytoskeleton; tropomyosin binding; troponin C binding; troponin I binding;

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