TNNT2 (Human) Recombinant Protein (Q01)

Catalog # H00007139-Q01 Size 25 ug, 10 ug

Applications

Specification

Product Description	Human TNNT2 partial ORF (AAH02653, 1 a.a. - 268 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSDIEEVVEEYEEEEQEEAAVEEQEEAAEEDAEAEAETEETRAEEDEEEEEAKEAEDGPMEESKPKPRSFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQALIEAHFENRKKEEEELVSLKDRIERRRAERAEQQRIRNEREKERQNRLAEERARREEEENRRKAEDEARKKKALSNMMHFGGYIQKTERKSGKRQTEREKKKKILAERRKVLAIDHLNEDQLREKAKELWQSIYNLEAEKFDLQEKFKQQKYEINVLRNRINDN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	55.11
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

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Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — TNNT2

Entrez GeneID	7139
GeneBank Accession#	BC002653
Protein Accession#	AAH02653
Gene Name	TNNT2
Gene Alias	CMH2, CMPD2, MGC3889, RCM3, TnTC, cTnT
Gene Description	troponin T type 2 (cardiac)
Omim ID	115195 191045 601494
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is the tropomyosin-binding subunit of the troponin complex, whi ch 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 associat ed with familial hypertrophic cardiomyopathy as well as with dilated cardiomyopathy. Transcripts f or this gene undergo alternative splicing that results in many tissue-specific isoforms, however, th e full-length nature of some of these variants has not yet been determined. [provided by RefSeq
Other Designations	OTTHUMP00000033864|OTTHUMP00000033867|cardiomyopathy, dilated 1D (autosomal domi nant)|cardiomyopathy, hypertrophic 2|troponin T type 2, cardiac|troponin T, cardiac muscle|troponi n T2, cardiac

Pathway

- Cardiac muscle contraction
- Hypertrophic cardiomyopathy (HCM)

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Disease

- Cardiomegaly
- Cardiomyopathies
- Cardiomyopathy
- Cardiovascular Diseases
- Death
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Hypertrophy
- Lipid Metabolism
- Mitochondrial Myopathies
- Tachycardia

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