

Cardiac Troponin I (cTnI) Protein | cTnI protein

Eukaryotic Cardiac Troponin I (cTnI)

CATALOG # AAA150980	HOST 293F cell	APPLICATIONS Western Blot, SDS-Page
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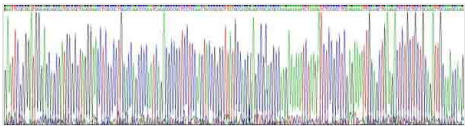
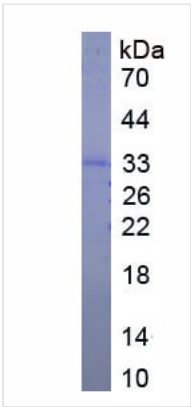
PRODUCT SYNONYMS

Cardiac Troponin I (cTnI); Eukaryotic Cardiac Troponin I (cTnI); cTnI/Cardiac Troponin I; TNNI3; TNNC1; CMH7; C-TnI; Troponin I Type 3; Cardiac; cTnI protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	> 90%
Form/Format	PBS, pH7.4, containing 5% Trehalose .
Concentration	Original Concentration: 50ug/mL (varies by lot)
Applicable Applications for cTnI protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Eukaryotic expression
Residues	Ala2~Ser210
Tags: N-terminal His	Subcellular Location
Traits	Freeze-dried powder
Predicted isoelectric point	10.6
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.2 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE
SDS-PAGE

ADGSSDAAR EPRPAPAPI RRSSNYRAYA TEPHAKKSK ISASRLQLK
TLLQIAKQE LERAEERRG EKGRALSTRC QPLELAGLGF AELQDLCRQL
HARVDKVDDEE RYDIEAKVTN NITEIADLTQ KIFDLRGKFK RPTLRRVRIS
ADAMQALLG ARAKESLDLR AHLKQVKKED TEKENREVGD WRKNIDALSG
MEGRKKKFES

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for cTnI protein	Cardiovascular biology; Eukaryotic recombinant
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NCBI AND UNIPROT INFORMATION

NCBI GI #	151101270
NCBI GeneID	7137
NCBI Accession #	NP_000354.4
NCBI GenBank Nucleotide #	NM_000363.4
UniProt Accession #	P19429
Molecular Weight	Predicted Molecular Mass: 25.5kDa Accurate Molecular Mass: 33kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	troponin I, cardiac muscle
NCBI Official Synonym Full Names	troponin I type 3 (cardiac)
NCBI Official Symbol	TNNI3
NCBI Official Synonym Symbols	CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF
NCBI Protein Information	troponin I, cardiac muscle
UniProt Protein Name	Troponin I, cardiac muscle
UniProt Gene Name	TNNI3
UniProt Synonym Gene Names	TNNC1
UniProt Entry Name	TNNI3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

