

Active Recombinant Human TNNT2 protein, His-GST-tagged

Cat. No. TNNT2-3327H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNNT2 protein(Met1~Lys295), fused with N-terminal His and GST Tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys295
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Troponin T Type 2, Cardiac (TNNT2) is one of three troponin isoforms found in the tropomyosin-troponin complex. This complex is responsible for the calcium sensitivity of the contractile apparatus in the muscle. Cardiac Troponin T is used as a biological marker for cardiomyocytes and its level in serum is frequently used as an indicator of myocardial cell injury. Besides, Troponin I Type 3, Cardiac (TNNI3) has been identified as an interactor of TNNT2, thus a binding ELISA assay was conducted to detect the interaction of recombinant human TNNT2 and recombinant human TNNI3. Briefly, TNNT2 was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100µl were then transferred to TNNI3-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-TNNT2 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and

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washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the wells and read at 450/630nm immediately. The binding activity of TNNT2 and TNNI3 was shown in Figure 1, and this effect was in a dose dependent manner.

Molecular Mass	70kDa
Purity	> 95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	TNNT2 troponin T type 2 (cardiac) [Homo sapiens]
Official Symbol	TNNT2
Synonyms	TNNT2; troponin T type 2 (cardiac); cardiomyopathy, hypertrophic 2 , CMH2, troponin T2, cardiac; troponin T, cardiac muscle; troponin T2, cardiac; cardiac muscle troponin T; cardiomyopathy, hypertrophic 2; cardiomyopathy, dilated 1D (autosomal dominant); CMH2; RCM3; TnTC; cTnT; CMPD2; LVNC6; MGC3889;
Gene ID	7139
mRNA Refseq	NM_000364
Protein Refseq	NP_000355

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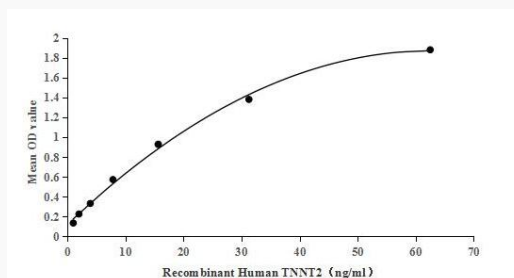
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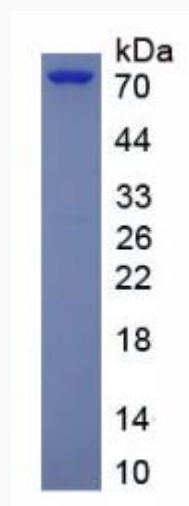
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UniProt ID P45379

Activity



SDS-PAGE



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