

Rabbit Anti-Cardiac Troponin T antibody

SL10648R

Product Name:	Cardiac Troponin T
Chinese Name:	心肌特异性肌钙蛋白T抗体
Alias:	Cardiac muscle troponin T; Cardiomyopathy dilated 1D (autosomal dominant); Cardiomyopathy hypertrophic 2; CMD1D; CMH2; CMPD2; cTnT; LVNC6; MGC3889; OTTHUMP00000033864; OTTHUMP00000033865; OTTHUMP00000033866; OTTHUMP00000033867; OTTHUMP00000033870; OTTHUMP00000218095; RCM3; TNNT 2; TNNT2; TNNT2_HUMAN; TnTC; Troponin T cardiac muscle; Troponin T type 2 (cardiac); Troponin T type 2 cardiac; Troponin T, cardiac muscle; Troponin T2; Troponin T2 cardiac.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow- Cyt=1µg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	36kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Cardiac Troponin T:201- 298/298
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
rudmea:	

Product Detail:	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]. Function: Troponin T is the tropomyosin-binding subunit of troponin, the thin filament regulatory complex which confers calcium-sensitivity to striated muscle actomyosin ATPase activity. Subcellular Location: Cytoplasm. Tissue 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 fetal heart. Isoform 7 is also expressed in failing adult heart. DISEASE: Cardiomyopathy, familial hypertrophic 2 (CMH2) [MIM:115195]: A hereditary heart disorder characterized by ventricular sptum. The symptoms include dyspnea, syncope, collapse, palpitations, and chest pain. They can be readily provoked by exercise. The disorder has inter- and intrafamilial variability ranging from benign to malignant forms with high risk of cardiac failure and sudden cardiac death. Note=The disease is caused by mutations affecting the gene represented in this entry. Cardiomyopathy, diated 1D (CMD1D) [MIM:612421]: A heart disorder characterized by impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. Note=The disease is caused by mutations affecting the gene represented in this entry. Cardiomyopathy, familial restrictive 3 (RCM3) [MIM:612422]: A heart disorder characterized by impair
	Similarity:
	Belongs to the troponin T family.
	SWISS: P45379
	Gene ID:

7139

Database links:

Entrez Gene: 493940Cat

Entrez Gene: 286816Cow

Entrez Gene: 403532Dog

Entrez Gene: 7139Human

Entrez Gene: 21956Mouse

Entrez Gene: 100622450Pig

Entrez Gene: 100009428Rabbit

Entrez Gene: 24837Rat

Omim: 191045Human

SwissProt: P13789Cow

SwissProt: P45379Human

SwissProt: P50752Mouse

SwissProt: P09741Rabbit

SwissProt: P50753Rat

Unigene: 533613Human

Unigene: 247470Mouse

Unigene: 9965Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Tissue/cell: rat heart tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-TNNT2 Polyclonal Antibody, Unconjugated(SL10648R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining





