SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

Rabbit Anti-heavy chain cardiac Myosin antibody

SL0259R

Product Name:	heavy chain cardiac Myosin
Chinese Name:	心肌肌球蛋白重链抗体
Alias:	MYH6 + MYH7; MYH6 / MYH7; Alpha MHC; ASD3; CMD1S; CMH1; MGC138376; MGC138378; MPD1; MYH 6; MYH 7; MYH6; MYH7; MYHC A; MYHC; MYHC B; MyHC-alpha; MyHC-beta; MYHCA; MYHCB; Myosin heavy chain cardiac muscle alpha isoform; Myosin heavy chain cardiac muscle beta isoform; Myosin heavy polypeptide 7 cardiac muscle beta; MYH6_HUMAN; MYH7_HUMAN; heavy chain cardiac Myosin.
文献引用 PubMed :	**Specific References(1)**|SL0259R has been referenced in 1 publications. **[IF=2.80]**Li, Hao, et al. "Perivascular adipose tissue-derived leptin promotes vascular smooth muscle cell phenotypic switching via p38 mitogen-activated protein kinase in metabolic syndrome rats." Experimental Biology and Medicine (2014): 1535370214527903.**WB;Rat**. PubMed:24719379
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=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:	213kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from the middle of human MyHC-beta:1101-1200/1938

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.
PubMed:	PubMed
Product Detail:	Cardiac muscle myosin is a hexamer consisting of two heavy chain subunits, two light chain subunits, and two regulatory subunits. This gene encodes the alpha heavy chain subunit of cardiac myosin. The gene is located 4kb downstream of the gene encoding the beta heavy chain subunit of cardiac myosin. Mutations in this gene cause familial hypertrophic cardiomyopathy and atrial septal defect 3. [provided by RefSeq, Mar 2010]. **Function:** Muscle contraction. **Subunit:** Muscle myosin is a hexameric protein that consists of 2 heavy chain subunits (MHC), 2 alkali light chain subunits (MLC) and 2 regulatory light chain subunits (MLC-2). **Subcellular Location:** Cytoplasm, myofibril. Note=Thick filaments of the myofibrils. **DISEASE:** Atrial septal defect 3 (ASD3) [MIM:614089]: A congenital heart malformation characterized by incomplete closure of the wall between the atria resulting in blood flow from the left to the right atria. Note=The disease is caused by mutations affecting the gene represented in this entry. Cardiomyopathy, familial hypertrophic 14 (CMH14) [MIM:613251]: A hereditary heart disorder characterized by ventricular hypertrophy, which is usually asymmetric and often involves the interventricular septum. 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, dilated 1EE (CMD1EE) [MIM:613252]: A disorder characterized by ventricular dilation and 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. Sick sinus syndrome 3 (SSS3) [MIM:614090]: The term 'sick sinus syndrome' encompasses a variety of conditions caused by sinus node dysfunction. The most common clinical manifestations are syncope, presyncope, dizziness, and fatigue. Electrocardiogram typically shows sinus bradycardia, sinus arrest, and/or sinoatrial block. Episodes of atrial tachycardias coexisting with sinus bradycardia ('tachycardia-

bradycardia syndrome') are also common in this disorder. SSS occurs most often in the elderly associated with underlying heart disease or previous cardiac surgery, but can also occur in the fetus, infant, or child without heart disease or other contributing factors. Note=Disease susceptibility is associated with variations affecting the gene represented in this entry (PubMed:21378987). The lifetime risk of being diagnosed with sick sinus syndrome is higher for carriers of variant p.Arg721Trp than for non-carriers (PubMed:21378987).

Similarity:
Contains 1 IQ domain.
Contains 1 myosin head-like domain.

SWISS:
P12883

Gene ID:
4624

Database links:

Entrez Gene: 4624Human

Entrez Gene: 4625Human

Entrez Gene: 140781Mouse

Entrez Gene: 17888Mouse

Entrez Gene: 29556Rat

Entrez Gene: 29557Rat

Entrez Gene: 282714Cow

Omim: 160710Human

SwissProt: P12883Human

SwissProt: P13533Human

SwissProt: Q02566Mouse

SwissProt: Q91Z83Mouse

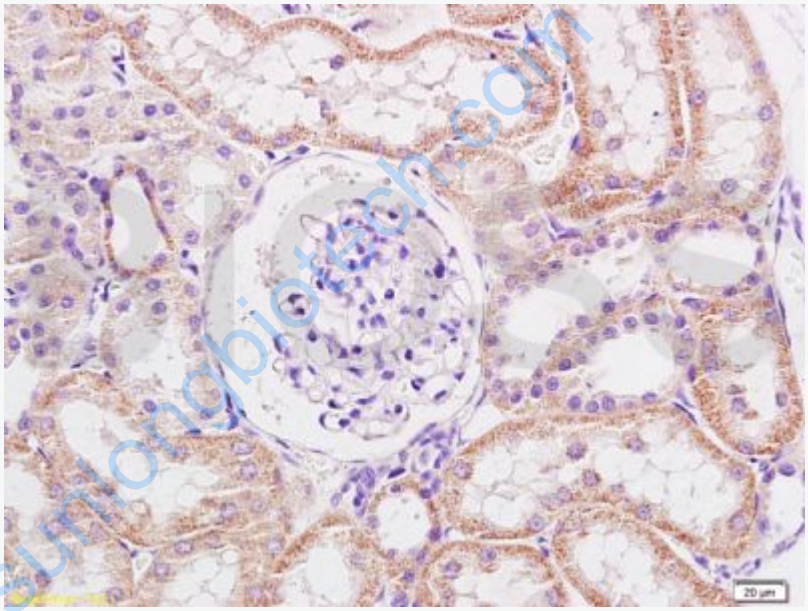
SwissProt: P02563Rat

SwissProt: P02564Rat

Unigene: 929Human

Unigene: 319176Mouse

Unigene: 127778Rat

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 心肌肌球蛋白(cardiac myosin，CM)亦称肌凝蛋白，它是粗肌丝的主要成分，也是心肌细胞存在最多的结构蛋白。CM由一条重链(MHC)和两条轻链(MLC)两种亚单位组成，轻链分为轻链Ⅰ(MLC-Ⅰ)和轻链Ⅱ(MLC-Ⅱ)。CM在功能上与骨骼肌相似，但在氨基酸组织及结构上有差别。
Picture:	 Tissue/cell: rat kidney 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℃ for 20 min; Incubation: Anti-SM-MHC Polyclonal Antibody, Unconjugated(SL0259R) 1:400, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining