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[Primary Antibody]

Rabbit Anti-CSRP3 antibody

Catalog Number: SL14087R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CSRP3
Immunogen:	KLH conjugated synthetic peptide derived from human CSRP3: 101-194/194
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Chicken, Pig, Cow, Sheep)
Predicted MW.:	21kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	This gene encodes a member of the CSRP family of LIM domain proteins, which may be involved in regulatory processes important for development and cellular differentiation. The LIM/double zinc-finger motif found in this protein is found in a group of proteins with critical functions in gene regulation, cell growth, and somatic differentiation. Mutations in this gene are thought to cause heritable forms of hypertrophic cardiomyopathy (HCM) and dilated cardiomyopathy (DCM) in humans. Alternatively spliced transcript variants with different 5' UTR, but encoding the same protein, have been found for this gene. [provided by RefSeq, Jul 2008] **Function:** Positive regulator of myogenesis. Plays a crucial and specific role in the organization of cytosolic structures in cardiomyocytes. Could play a role

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	in mechanical stretch sensing. May be a scaffold protein that promotes the assembly of interacting proteins at Z-line structures. It is essential for calcineurin anchorage to the Z line. Required for stress-induced calcineurin-NFAT activation. **Subcellular Location:** Nucleus. Cytoplasm. Cytoplasm; cytoskeleton. Cytoplasm; myofibril; sarcomere; Z line. Mainly cytoplasmic (By similarity). In the nucleus it associates with the actin cytoskeleton (Potential). In the Z line, found associated with GLRX3. **Tissue Specificity:** Cardiac and slow-twitch skeletal muscles. DISEASE: Defects in CSRP3 are the cause of cardiomyopathy dilated type 1M (CMD1M) [MIM:607482]. Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death. Defects in CSRP3 are the cause of cardiomyopathy familial hypertrophic type 12 (CMH12) [MIM:612124]. Familial hypertrophic cardiomyopathy is 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. **Similarity:** Contains 2 LIM zinc-binding domains. **Database links:** **Entrez Gene:** 8048 Human **Entrez Gene:** 540407 Cow **Entrez Gene:** 13009 Mouse **Entrez Gene:** 100337687 Pig **Entrez Gene:** 117505 Rat Omim: 600824 Human **SwissProt:** Q4U0T9 Cow **SwissProt:** P50461 Human **SwissProt:** P50462 Mouse **SwissProt:** P50463 Rat **Unigene:** 83577 Human **Unigene:** 17235 Mouse **Unigene:** 11345 Rat

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