



Rabbit Anti-Sorcin antibody

SL9871R

Product Name:	Sorcin
Chinese Name:	抗药蛋白抗体
Alias:	22 kDa protein; Calcium binding protein amplified in mutlidrug resistant cells; CP 22; CP-22; CP22; SCN; Sorcin (class 4 gene); Sorcin; SORCN_HUMAN; SRI; V19.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	22kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SR1/Sorcin:131-198/198
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:	Sorcin is a highly conserved protein, with 95% homology between hamster and human sorcin sequences. Sorcin has four putative Ca-binding domains, two of which exhibit strong homology to calmodulin “EF hand” motifs. Calcium binding directly to sorcin has been demonstrated by in vitro assays. Sorcin is closely related to members of calpain and sarcoplasmic Ca ²⁺ -binding protein subfamilies. Sorcin undergoes calcium-dependent translocation from the cytosol to cellular membranes. Sorcin binds to and

modulates ryanodine receptors and is widely distributed including heart and brain tissues. At the subcellular level, sorcin localizes to T-tubule junctions of cardiac sarcoplasmic reticulum.

Function:

Calcium-binding protein that modulates excitation-contraction coupling in the heart. Contributes to calcium homeostasis in the heart sarcoplasmic reticulum. Modulates the activity of RYR2 calcium channels.

Subunit:

Homodimer. Interacts with GCA, RYR2 and ANXA7.

Subcellular Location:

Cytoplasm. Sarcoplasmic reticulum membrane. Relocates to the sarcoplasmic reticulum membrane in response to elevated calcium levels.

Tissue Specificity:

Detected in cardiac myocytes.

Similarity:

Contains 4 EF-hand domains.

SWISS:

P30626

Gene ID:

6717

Database links:

[Entrez Gene: 6717](#)Human

[Entrez Gene: 109552](#)Mouse

[Entrez Gene: 683667](#)Rat

[Omim: 182520](#)Human

[SwissProt: P30626](#)Human

[SwissProt: Q6P069](#)Mouse

[Unigene: 489040](#)Human

[Unigene: 96211](#)Mouse

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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