**BACKGROUND**

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.

**CHROMOSOMAL LOCATION**

Genetic locus: SRI (human) mapping to 7q21.12; Sri (mouse) mapping to 5 A1.

**SOURCE**

sorcin (39-M) is a mouse monoclonal antibody raised against a full-length recombinant protein mapping within amino acids 1-198 of sorcin of human origin.

**PRODUCT**

Each vial contains 100 µg IgG\(^{2a}\) kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

sorcin (39-M) is recommended for detection of sorcin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for sorcin siRNA (h): sc-41016, sorcin siRNA (m): sc-41017, sorcin shRNA Plasmid (h): sc-41018-SH, sorcin shRNA Plasmid (m): sc-41017-SH, sorcin shRNA (h) Lentiviral Particles: sc-41018-V and sorcin shRNA (m) Lentiviral Particles: sc-41017-V.

Molecular Weight of sorcin: 22 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG\(^{k}\) BP-HRP: sc-516102 or m-IgG\(^{k}\) BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™
Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

![Western blot analysis of sorcin expression in HeLa whole cell lysate.](image)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

See our web site at www.scbt.com for detailed protocols and support products.