

Anti-SR1 Antibody

Catalog # ABO12786

Product Information

Application	WB
Primary Accession	P30626
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Sorcin(SRI) detection. Tested with WB in Human;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	6717
Other Names	Sorcin, 22 kDa protein, CP-22, CP22, V19, SRI
Calculated MW	21676
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Subcellular Localization	Cytoplasm. Sarcoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Relocates to the sarcoplasmic reticulum membrane in response to elevated calcium levels.
Tissue Specificity	Detected in cardiac myocytes.
Source	Eukaryota
Protein Name	Sorcin
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human SR1 (89-116aa TMGFNEFKELWAVLNGWRQHFISFDTDR), different from the related mouse sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated

freezing and thawing.

Protein Information

Name	SRI
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.
Cellular Location	Cytoplasm. Sarcoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Note=Relocates to the sarcoplasmic reticulum membrane in response to elevated calcium levels
Tissue Location	Detected in cardiac myocytes.

Background

Sorcin is a protein that in humans is encoded by the SRI gene. It is mapped to 7q21.1. This gene encodes a calcium-binding protein with multiple E-F hand domains that relocates from the cytoplasm to the sarcoplasmic reticulum in response to elevated calcium levels. In addition to regulating intracellular calcium homeostasis it also modulates excitation-contraction coupling in the heart. Alternative splicing results in multiple transcript variants encoding distinct proteins. Multiple pseudogenes exist for this gene.

Images



Western blot analysis of SRI expression in rat liver extract (lane 1), rat brain extract (lane 2) and SMMC7721 whole cell lysates (lane 3). SRI at 26KD was detected using rabbit anti- SRI Antigen Affinity purified polyclonal antibody (Catalog # ABO12786) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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