

Junctional SR Marker (VF1c): sc-58772

BACKGROUND

The sarcoplasmic reticulum (SR) is a type of smooth endoplasmic reticulum that is specially adapted to surround the myofibrils. The SR forms dyad junctions in cardiac muscle and triad junctions in skeletal muscle containing invaginations of the plasma membrane called T tubules. The SR holds large stores of calcium, which it sequesters and then releases when the cell becomes depolarized. This calcium release triggers muscle contraction. At the triad, dihydropyridine receptors function as voltage sensors in excitation-contraction coupling, while ryanodine receptors function as calcium release channels located in the membrane of the SR terminal cisternae. During slow phase depolarization of the T tubule, a third protein, Triadin, may transmit electrochemical signals to the SR. Junctional markers such as these are useful in a research lab to analyze the function and behavior of the SR.

REFERENCES

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SOURCE

Junctional SR Marker (VF1c) is a mouse monoclonal antibody raised against skeletal muscle triads of rabbit origin.

PRODUCT

Each vial contains 200 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Junctional SR Marker (VF1c) is available conjugated to agarose (sc-58772 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-58772 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-58772 PE), fluorescein (sc-58772 FITC), Alexa Fluor® 488 (sc-58772 AF488), Alexa Fluor® 546 (sc-58772 AF546), Alexa Fluor® 594 (sc-58772 AF594) or Alexa Fluor® 647 (sc-58772 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-58772 AF680) or Alexa Fluor® 790 (sc-58772 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

Junctional SR Marker (VF1c) is recommended for detection of Junctional SR Marker in skeletal muscle of rabbit origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500); non cross-reactive with cardiac muscle.

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.

PROTOCOLS

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