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SLC8A1

Reactivity: Human

Tested applications:WB

Recommended Dilution:WB 1:1000 - 1:2000

Calculated MW:120kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human SLC8A1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

SLC8A1; NCX1; Sodium/calcium exchanger 1;

Catalog #:A5583

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:6546

Isotype: IgG

Swiss Prot:P32418

Purity: Affinity purification

For research use only.

Background:

In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) exchanger is the primary mechanism by which the Ca(2+) is extruded from the cell during relaxation. In the heart, the exchanger may play a key role in digitalis action. The exchanger is the dominant mechanism in returning the cardiac myocyte to its resting state following excitation.

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