Product Name: NCX1 Rabbit Polyclonal Antibody

Catalog #: APRab14461



Summary

Production Name NCX1 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human, Mouse, Rat

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

Clonality Polyclonal Form Liquid

Storage Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type

preservative N.

Purification Affinity purification

Immunogen

Buffer

Gene Name SLC8A1

Alternative Names SLC8A1; CNC; NCX1; Sodium/calcium exchanger 1; Na(+)/Ca(2+)-exchange protein 1

Gene ID 6546.0

SwissProt ID P32418. Synthesized peptide derived from NCX1 . at AA range: 270-350

Application

Dilution Ratio WB 1:500-1:2000, ELISA 1:5000.Not yet tested in other applications.

Molecular Weight 108kDa

Background

In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during

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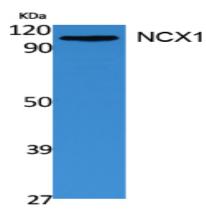


relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent 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.[supplied by OMIM, Apr 2004], alternative products: Additional isoforms seem to exist, enzyme regulation: By ATP., function: Rapidly transports Ca(2+) during excitation-contraction coupling. Ca(2+) is extruded from the cell during relaxation so as to prevent overloading of intracellular stores., similarity: Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily., similarity: Contains 2 Calx-beta domains., tissue specificity: Cardiac sarcolemma.,

Research Area

Calcium; Cardiac muscle contraction; Hypertrophic cardiomyopathy (HCM); Arrhythmogenic right ventricular cardiomyopathy (ARVC); Dilated cardiomyopathy;

Image Data



Western Blot analysis of extracts from 293 cells, using NCX1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Note

For research use only.