# **Product Name: NCX1 Rabbit Polyclonal Antibody**

Catalog #: APRab14461



# **Summary**

Production Name NCX1 Rabbit Polyclonal Antibody

**Description** Rabbit Polyclonal Antibody

Host Rabbit
Application WB

**Reactivity** Human, Mouse, Rat

### **Performance**

Conjugation	Unconjugated
Modification	Unmodified
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.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

### **Immunogen**

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.

Molecular Weight 108kD

# **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

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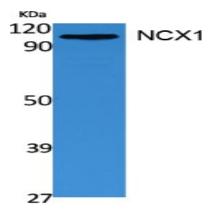


stores. However, some Ca(2+) also enters the cell through the sarcolemma (plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) 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.