

# NCX1/SLC8A1 Rabbit pAb

Catalog No.: A24494

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

104kDa/107kDa/108kDa

### Category

Primary antibody

### Applications

WB, ELISA

### Cross-Reactivity

Human

## 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.

## Recommended Dilutions

**WB** 1:500 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

**Gene ID**  
6546

**Swiss Prot**  
P32418

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

SLC8A1; NCX1; sodium/calcium exchanger 1; NCX1/SLC8A1

## Contact

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## Product Information

**Source**  
Rabbit

**Isotype**  
IgG

**Purification**  
Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.