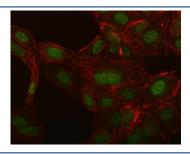


# NCX1 Antibody / SLC8A1 (RQ8309)

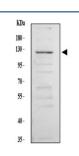
Catalog No.	Formulation	Size
RQ8309	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

## **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P32418
Localization	Nuclear, plasma membrane
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Direct ELISA : 0.1-0.5ug/ml
Limitations	This NCX1 antibody is available for research use only.



Immunofluorescent staining of FFPE human U-2 OS cells with NCX1 antibody (green) and Phalloidin (red). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of human K562 cell lysate with NCX1 antibody. Predicted molecular weight: 105-108 kDa (multiple isoforms) but may be observed at higher molecular weights due to glycosylation.

#### **Description**

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.

#### **Application Notes**

Optimal dilution of the NCX1 antibody should be determined by the researcher.

### **Immunogen**

An E.coli-derived human recombinant protein (E301-Q686) was used as the immunogen for the NCX1 antibody.

#### **Storage**

After reconstitution, the NCX1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.