

**Product Name: NCX1 (13Y2) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe14460**

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## Summary

|                        |                                        |
|------------------------|----------------------------------------|
| <b>Production Name</b> | NCX1 (13Y2) Rabbit Monoclonal Antibody |
| <b>Description</b>     | Rabbit Monoclonal Antibody             |
| <b>Host</b>            | Rabbit                                 |
| <b>Application</b>     | WB                                     |
| <b>Reactivity</b>      | Human,Mouse,Rat                        |

## Performance

|                     |                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                                                                                             |
| <b>Modification</b> | Unmodified                                                                                                                                                               |
| <b>Isotype</b>      | IgG                                                                                                                                                                      |
| <b>Clonality</b>    | Monoclonal                                                                                                                                                               |
| <b>Form</b>         | Liquid                                                                                                                                                                   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.<br>Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% New type |
| <b>Buffer</b>       | preservative N and 50% glycerol. Store at +4°C short term. Store at -20°C long term.<br>Avoid freeze / thaw cycle.                                                       |
| <b>Purification</b> | Affinity purification                                                                                                                                                    |

## Immunogen

|                          |                                                            |
|--------------------------|------------------------------------------------------------|
| <b>Gene Name</b>         | SLC8A1                                                     |
| <b>Alternative Names</b> | Na <sup>+</sup> /Ca <sup>2+</sup> exchanger; NCX1; SLC8A1; |
| <b>Gene ID</b>           | 6546.0                                                     |
| <b>SwissProt ID</b>      | P32418.                                                    |

## Application

|                         |                  |
|-------------------------|------------------|
| <b>Dilution Ratio</b>   | WB 1:1000-1:5000 |
| <b>Molecular Weight</b> | 109kDa           |

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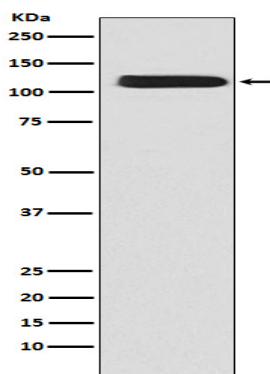


## Background

Rapidly transports  $\text{Ca}^{2+}$  during excitation-contraction coupling.  $\text{Ca}^{2+}$  is extruded from the cell during relaxation so as to prevent overloading of intracellular stores. Mediates the exchange of one  $\text{Ca}^{2+}$  ion against three to four  $\text{Na}^{+}$  ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic  $\text{Ca}^{2+}$  levels and  $\text{Ca}^{2+}$ -dependent cellular processes (PubMed: [1374913](http://www.uniprot.org/citations/1374913), PubMed: [11241183](http://www.uniprot.org/citations/11241183), PubMed: [1476165](http://www.uniprot.org/citations/1476165)). Contributes to  $\text{Ca}^{2+}$  transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic  $\text{Ca}^{2+}$  levels due to release of  $\text{Ca}^{2+}$  stores from the endoplasmic reticulum. SLC8A1 mediates the export of  $\text{Ca}^{2+}$  from the cell during the next phase, so that cytoplasmic  $\text{Ca}^{2+}$  levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions.

## Research Area

## Image Data



Western blot analysis of NCX1 expression in K562 cell lysate.

## Note

For research use only.