

# NCX1 Antibody

Rabbit mAb

Catalog # AP91738

## Product Information

---

|                          |  |
|--------------------------|--|
| <b>Application</b>       | WB   |
| <b>Primary Accession</b> | <a href="#">P32418</a>                                     |
| <b>Reactivity</b>        | Rat, Human, Mouse  |
| <b>Clonality</b>         | Monoclonal   |
| <b>Other Names</b>       | Na <sup>+</sup> /Ca <sup>2+</sup> exchanger; NCX1; SLC8A1; |
| <b>Isotype</b>           | Rabbit IgG   |
| <b>Host</b>              | Rabbit   |
| <b>Calculated MW</b>     | 108547   |

## Additional Information

---

|                                     |   |
|-------------------------------------|---|
| <b>Dilution</b>                     | WB 1:500~1:2000   |
| <b>Purification</b>                 | Affinity-chromatography   |
| <b>Immunogen</b>                    | A synthesized peptide derived from human NCX1   |
| <b>Description</b>                  | 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.        |
| <b>Storage Condition and Buffer</b> | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## Protein Information

---

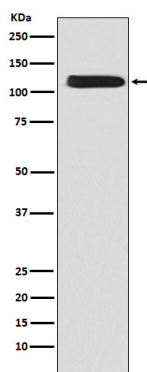
|                          |  |
|--------------------------|--|
| <b>Name</b>              | SLC8A1   |
| <b>Function</b>          | Mediates the exchange of one Ca(2+) ion against three to four Na(+) ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca(2+) levels and Ca(2+)-dependent cellular processes (PubMed: <a href="#">11241183</a> , PubMed: <a href="#">1374913</a> , PubMed: <a href="#">1476165</a> ). Contributes to Ca(2+) transport during excitation-contraction coupling in muscle (PubMed: <a href="#">11241183</a> , PubMed: <a href="#">1374913</a> , PubMed: <a href="#">1476165</a> ). In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca(2+) levels due to release of Ca(2+) stores from the endoplasmic reticulum (PubMed: <a href="#">11241183</a> , PubMed: <a href="#">1374913</a> , PubMed: <a href="#">1476165</a> ). SLC8A1 mediates the export of Ca(2+) from the cell during the next phase, so that cytoplasmic Ca(2+) levels rapidly return to baseline (PubMed: <a href="#">11241183</a> , PubMed: <a href="#">1374913</a> , PubMed: <a href="#">1476165</a> ). Required for normal embryonic heart development and the onset of heart contractions (By similarity). |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein   |

## Tissue Location

Detected primarily in heart and at lower levels in brain (PubMed:1374913).  
Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung (PubMed:1476165)

## Images

---



Western blot analysis of NCX1 expression in K562 cell lysate.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.