

# 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

---

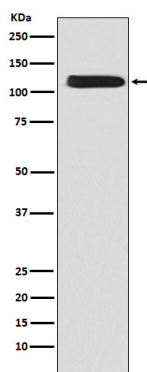
<b>Name</b>	SLC8A1
<b>Function</b>	Mediates the exchange of one Ca(2+) ion against three to four Na(+) ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca(2+) levels and Ca(2+)-dependent cellular processes (PubMed: <a href="#">11241183</a> , PubMed: <a href="#">1374913</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'.