

# NCX1 Polyclonal Antibody

Catalog # AP73286

## Product Information

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Application	WB, E
Primary Accession	<a href="#">P32418</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	108547

## Additional Information

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Gene ID	6546
Other Names	SLC8A1; CNC; NCX1; Sodium/calcium exchanger 1; Na(+)/Ca(2+)-exchange protein 1
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

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Name	SLC8A1
Function	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).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Detected primarily in heart and at lower levels in brain (PubMed: <a href="#">1374913</a> ).

Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung (PubMed:1476165)

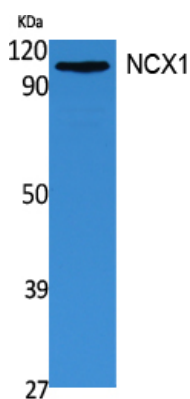
## Background

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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](#), PubMed:[11241183](#), PubMed:[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.

## Images

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Western Blot analysis of extracts from 293 cells, using NCX1 Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

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