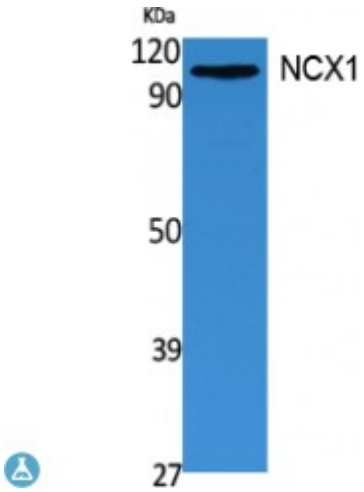
Anti-NCX1 antibody



Description	Rabbit polyclonal to NCX1.

Model	STJ96468
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Synthesized peptide derived from human NCX1
Immunogen Region	270-350 aa, Internal
Gene ID	6546
Gene Symbol	SLC8A1
Dilution range	WB 1:500-1:2000ELISA 1:5000
Specificity	NCX1 Polyclonal Antibody detects endogenous levels of NCX1 protein.
Tissue Specificity	Detected primarily in heart and at lower levels in brain . Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Sodium/calcium exchanger 1 Na +/Ca 2+-exchange protein 1 Solute carrier family 8 member 1
Molecular Weight	108 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11068OMIM:182305
Alternative Names	Sodium/calcium exchanger 1 Na +/Ca 2+-exchange protein 1 Solute carrier family 8 member 1
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 . Contributes to Ca(2+) transport during excitation-contraction coupling in muscle. 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. SLC8A1 mediates the export of Ca(2+) from the cell during the next phase, so that cytoplasmic Ca(2+) levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions.
Sequence and Domain Family	The cytoplasmic Calx-beta domains bind the regulatory Ca(2+). The first Calx-beta domain can bind up to four Ca(2+) ions. The second domain can bind another two Ca(2+) ions that are essential for calcium-regulated ion exchange.
Cellular Localization	Cell membrane