SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NCX1 antibody

Catalog Number: SL1550R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NCX1
Immunogen:	KLH conjugated synthetic peptide derived from human NCX1: 801-900/971
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=0.2ug/test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat (predicted:Mouse,Chicken,Dog,Pig,Cow,Horse,Sheep,GuineaPig)
Predicted MW.:	106kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	In cardiac myocytes, Ca(2+) concentrations alternate between high levels during contraction and low levels during relaxation. The increase in Ca(2+) concentration during contraction is primarily due to release of Ca(2+) from intracellular stores. However, some Ca(2+) also enters the cell through the sarcolemma(plasma membrane). During relaxation, Ca(2+) is sequestered within the intracellular stores. To prevent overloading of intracellular stores, the Ca(2+) that entered across the sarcolemma must be extruded from the cell. The Na(+)-Ca(2+) exchanger is the primary mechanism by which the Ca(2+) is extruded from the cell during relaxation. In the heart, the exchanger may play a key role in digitalis action. The exchanger is the dominant mechanism

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	in returning the cardiac myocyte to its resting state following excitation.[supplied by OMIM]. **Subcellular Location:** Cell membrane. **Tissue Specificity:** Expressed in cardiac sarcolemma, brain, kidney, liver, pancreas, skeletal muscle, placenta and lung. **Similarity:** Belongs to the sodium/potassium/calcium exchanger family. SLC8 subfamily. Contains 2 Calx-beta domains. **Database links:** **Entrez Gene:** 6546 Human **Entrez Gene:** 20541 Mouse **Entrez Gene:** 100328570 Rabbit **Entrez Gene:** 29715 Rat Omim: 182305 Human **SwissProt:** P23685 Dog **SwissProt:** P48766 Guinea pig **SwissProt:** P32418 Human **SwissProt:** P70414 Mouse **SwissProt:** Q01728 Rat **Unigene:** 31961 Human **Unigene:** 468274 Human **Unigene:** 728911 Human **Unigene:** 265834 Mouse **Unigene:** 118972 Rat

[VALIDATION IMAGES]

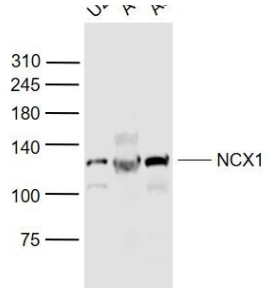


Figure 1. Sample: Lane 1: U251 (Human) Cell Lysate at 30 ug Lane 2: A431 (Human) Cell Lysate at 30 ug Lane 3: A549 (Human) Cell Lysate at 30 ug Primary: Anti-NCX1 (SL1550R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 120 kD Observed band size: 120 kD

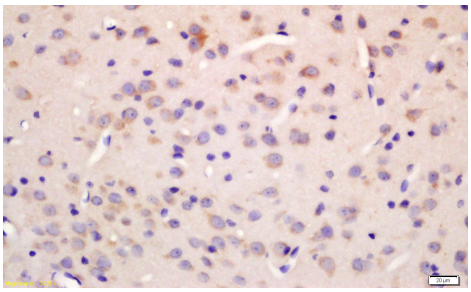


Figure 2. Paraformaldehyde-fixed, paraffin embedded (rat brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NCX1) Polyclonal Antibody, Unconjugated (SL1550R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining

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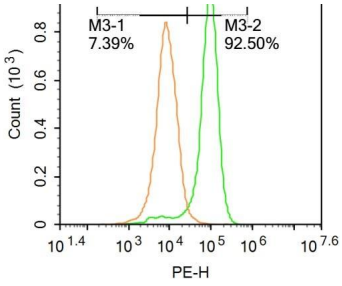


Figure 3. U-937 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with CXCL2 Antibody(SL1550R) at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange)

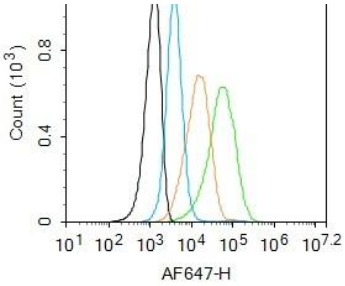


Figure 4. Blank control:U937. Primary Antibody (green line): Rabbit Anti-NCX1 antibody (SL1550R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody: Goat anti-rabbit IgG-BF647 Dilution: 1µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature.Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed

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