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## NCX2 Rabbit pAb

Catalog Number: bs-1997R

Target Protein: NCX2

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: **IHC-P** (1:100-500), **IHC-F** (1:100-500), **IF** (1:100-500), **ELISA** (1:5000-10000)

Reactivity: (predicted:&nbsp;Human, Mouse, Rat, Rabbit, Pig, Cow, Dog, GuineaPig, Horse)

Predicted MW: 98 kDa

Subcellular Cell membrane

Locations:

Entrez Gene: 6543

Source: KLH conjugated synthetic peptide derived from human NCX2: 601-700/921.

Purification: affinity purified by Protein A

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Sodium/calcium exchanger proteins are integral membrane proteins primarily seen in cardiac cells. In cardiac myocytes, the concentration of Ca<sup>2+</sup> alternates between low levels during relaxation and high levels during contraction. The Na<sup>+</sup>/Ca<sup>2+</sup> exchanger 1 (NCX1) protein mediates Ca<sup>2+</sup> extrusion from cardiac cells during relaxation. Four NCX1 isoforms (NCX1.1, NCX1.3, NCX1.7, and NCX1.10) result from alternate splicing. NCX1 mRNA is present at high levels in the heart, with lower levels present in the brain. NCX2 is most abundantly expressed in brain, in contrast the the broader distribution of NCX1, which is also expressed in heart, kidney, lung, smooth and skeletal muscle. The difference in expression for the transporter subtypes is believed to reflect differences in their functional roles. Regulation mechanisms for these exchanger proteins have not been fully characterized.

### PRODUCT SPECIFIC PUBLICATIONS

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**[IF=8.4]** Yan Jie. et al. T-type voltage-gated channels, Na<sup>+</sup>/Ca<sup>2+</sup>-exchanger, and calpain-2 promote photoreceptor cell death in inherited retinal degeneration. CELL COMMUN SIGNAL. 2024 Dec;22(1):1-24 IHC ; Mouse . 38303059

**[IF=3.457]** Chen M et al. Protective effects of echinacoside against anoxia/reperfusion injury in H9c2 cells via up-regulating p-AKT and SLC8A3.Biomed Pharmacother. 2018 Aug;104:52-59. WB ; Rat . 29763795

- [IF=3.201]** Zhang J et al. TRPV4 Complexes With the Na/Ca 2 Exchanger and IP 3 Receptor 1 to Regulate Local Intracellular Calcium and Tracheal Tension in Mice. Front. Physiol., 06 December 2019. CoIP, WB ; Mouse . doi:10.3389/fphys.2019.01471
- [IF=2.959]** Zhixiu Xia. et al. NCX3 alleviates ethanol-induced apoptosis of SK-N-SH cells via the elimination of intracellular calcium ions. Toxicol In Vitro. 2021 Apr;72:105104 WB ; Human . 33516933
- [IF=1.963]** Zhixiu Xia. et al. The downregulation of NCXs is positively correlated with the prognosis of stage II–IV colon cancer. World J Surg Oncol. 2021 Dec;19(1):1-14 WB, IHC ; Human . 34127021