

# Product Datasheet

## Sodium Calcium Exchanger 1/NCX1 Antibody (6H2) NB300-127-0.02mg

Unit Size: 0.02 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NB300-127-0.02mg**

Sodium Calcium Exchanger 1/NCX1 Antibody (6H2)

Product Information	
Unit Size	0.02 mg
Concentration	LYOPH mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	6H2
Preservative	No Preservative
Reconstitution Instructions	Reconstitute with 50 ul PBS to desired concentration.
Isotype	IgG2b
Purity	Protein G purified
Buffer	5mM Ammonium Bicarbonate
Target Molecular Weight	108.5 kDa

Product Description	
Description	PLEASE NOTE: 0.02mg size is provided in liquid format.
Host	Mouse
Gene ID	6546
Gene Symbol	SLC8A1
Species	Mouse, Rat, Canine, Chicken, Rabbit
Reactivity Notes	Tested in Rabbit. Canine reactivity reported in scientific literature (PMID: 18025087). Chicken reactivity reported in scientific literature (PMID: 15528161). Mouse reactivity reported in scientific literature (PMID: 26068603). Rat reactivity reported in scientific literature (PMID: 22285480). Reactivity assumed based on sequence identity to a wide variety of mammalian species.
Specificity/Sensitivity	Specific for the ~120k and 160k Na <sup>+</sup> /Ca <sup>2+</sup> exchanger 1 protein.
Immunogen	Fusion protein from the N-terminal region of rabbit renal NaCX

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Immunocytochemistry/ Immunofluorescence 1:10-1:2000
Application Notes	NB300-127 is useful for Western blot and immunohistochemistry. Immunocytochemistry/Immunofluorescence was reported in scientific literature (PMID 22285480). NOTE: One should see a band at ~120 kD in Western Blot. Some tissues have a form that also runs at ~160 kD.



## Publications

Mareedu S, Pachon RE, Jayapalraj T et al. Sarcolipin haploinsufficiency prevents dystrophic cardiomyopathy in mdx mice *Am J Physiol Heart Circ Physiol* 2020-11-20 [PMID: 33216625]

Kho Changwon, Lee Ahyoung, Jeong Dongtak et al. Small-molecule activation of SERCA2a SUMOylation for the treatment of heart failure. *Nature Communications* 2015-01-01 [PMID: 26068603] (WB, WB, Mouse)

Centeno VA, Diaz de Barboza GE, Marchionatti AM et al. Dietary calcium deficiency increases Ca<sup>2+</sup> uptake and Ca<sup>2+</sup> extrusion mechanisms in chick enterocytes. *Comp Biochem Physiol A Mol Integr Physiol* 2004-10-01 [PMID: 15528161] (Chicken)

Rapti K, Stillitano F, Karakikes I et al. Effectiveness of gene delivery systems for pluripotent and differentiated cells *Molecular Therapy — Methods & Clinical Development* . 2015-01-01 [PMID: 26052535] (WB, Human)

Sears, CE et al. Cardiac neuronal nitric oxide synthase isoform regulates myocardial contraction calcium hling. *Circ Res* 92:e52-9. 2003-01-01 [PMID: 12623875]

Beauge, L et al. Regulation of phosphatidylinositol-4, 5-biphosphate bound to the bovine cardiac Na<sup>+</sup>/Ca<sup>2+</sup> exchanger. *Ann N Y Acad Sci*976:288-99. 2002-01-01 [PMID: 12502572]

Okamoto Y, Takano M, Ohba T, Ono K. Arrhythmogenic coupling between the Na<sup>(+)</sup>-Ca<sup>(2+)</sup> exchanger and inositol 1,4,5-triphosphate receptor in rat pulmonary vein cardiomyocytes. *J Mol Cell Cardiol*;52(5):988-97. 2012-05-01 [PMID: 22285480] (ICC/IF, Rat)

agin, O et al. Inverse correlation between the extent of N-glycan branching intercellular adhesion in epithelia: contribution of the Na,K-ATPase Beta 1 subunit. *J Biol Chem*. 2007-11-01 [PMID: 18025087] (WB, Canine)





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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