

Datasheet for ABIN907785

## anti-SLC8A1 antibody (AA 801-900) (Alexa Fluor 488)



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### Overview

Quantity:	100 µL
Target:	SLC8A1
Binding Specificity:	AA 801-900
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC8A1 antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NCX1
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Dog,Cow,Sheep,Pig,Horse,Chicken,Guinea Pig
Purification:	Purified by Protein A.

### Target Details

Target:	SLC8A1
Alternative Name:	NCX1/SLC8A1 ( <a href="#">SLC8A1 Products</a> )

## Target Details

**Background:** Synonyms: Na<sup>+</sup>/Ca<sup>2+</sup>exchanger 1, CNC, DKFZp779F0871, MGC119581 , FLJ37694, FLJ43417, Na<sup>+</sup>/Ca<sup>2+</sup> exchange protein 1, Na<sup>+</sup>/Ca<sup>2+</sup> exchanger, NCX 1, NCX, SLC8A1, SLC8A1 protein , Sodium Calcium Exchanger, Sodium/calcium exchanger 1, Solute carrier family 8 member 1.

**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 in returning the cardiac myocyte to its resting state following excitation.[supplied by OMIM].

**Gene ID:** 6546

**Pathways:** [Myometrial Relaxation and Contraction](#)

## Application Details

**Application Notes:** FCM 1:20-100  
IF(IHC-P) 1:50-200  
IF(IHC-F) 1:50-200  
IF(ICC) 1:50-200

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Concentration:** 1 µg/µL

**Buffer:** Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

**Preservative:** ProClin

**Precaution of Use:** This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**Storage:** -20 °C

## Handling

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Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

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Expiry Date: 12 months