

## ARG44085 anti-SLC8A1 antibody

Package: 50 μg Store at: -20°C

## Summary

Product Description	Rabbit Polyclonal recognizes SLC8A1
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
lsotype	lgG
Target Name	SLC8A1
Species	Human
Immunogen	Human SLC8A1 recombinant protein (Position: E301-Q686).
Conjugation	Un-conjugated
Alternate Names	SLC8A1; Solute Carrier Family 8 Member A1; NCX1; Solute Carrier Family 8 (Sodium/Calcium Exchanger), Member 1; Solute Carrier Family 8 Member 1; Na(+)/Ca(2+)-Exchange Protein 1; Sodium/Calcium Exchanger 1; Na+/Ca++ Exchanger; Na+/Ca2+ Exchanger; CNC

### **Application Instructions**

Application table	Application	Dilution
	ICC/IF	5 μg/ml
	WB	0.25 - 0.5 μg/ml
Application Note	The dilutions indicate recomments should be determined by the scie	ded starting dilutions and the optimal dilutions or concentrations entist.

#### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na2HPO4, 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

# Bioinformation

Gene Symbol	SLC8A1
Gene Full Name	Solute Carrier Family 8 Member A1
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.
Function	Mediates the exchange of one Ca2+ ion against three to four Na+ ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca2+ levels and Ca2+-dependent cellular processes.
Calculated Mw	109 kDa
PTM	Glycoprotein, Phosphoprotein
Cellular Localization	Cell membrane, Membrane

### Images



#### ARG44085 anti-SLC8A1 antibody ICC/IF image

Immunofluorescence: U2OS stained with ARG44085 anti-SLC8A1 antibody at 5  $\mu g/ml$  dilution.



#### ARG44085 anti-SLC8A1 antibody WB image

Western blot: K562 stained with ARG44085 anti-SLC8A1 antibody at 0.5  $\mu\text{g}/\text{mL}$  dilution.