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Datasheet for ABIN652886
anti-SLC8A1 antibody (AA 296-325)

3 Images

Overview

Quantity:	400 µL
Target:	SLC8A1
Binding Specificity:	AA 296-325
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC8A1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This SLC8A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 296-325 amino acids from the Central region of human SLC8A1.
Clone:	RB21687
Isotype:	Ig Fraction
Predicted Reactivity:	B, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	SLC8A1
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Target Details

Alternative Name: [SLC8A1 \(SLC8A1 Products\)](#)

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.

Molecular Weight: 108547

Gene ID: 6546

NCBI Accession: [NP_001106271](#), [NP_001106272](#), [NP_001106273](#), [NP_001239553](#), [NP_066920](#)

UniProt: [P32418](#)

Pathways: [Myometrial Relaxation and Contraction](#)

Application Details

Application Notes: WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

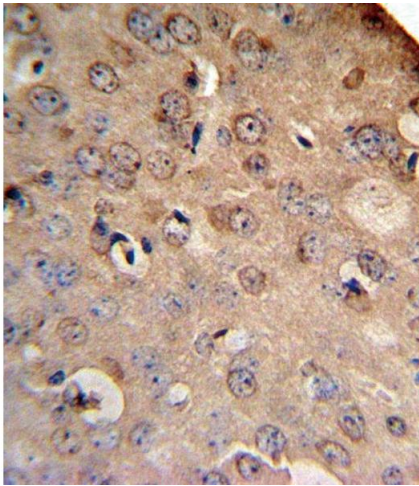
Preservative: Sodium azide

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

Storage: 4 °C,-20 °C

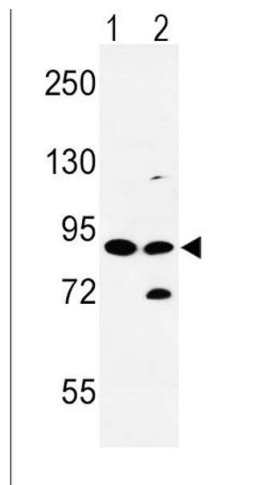
Storage Comment: Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months



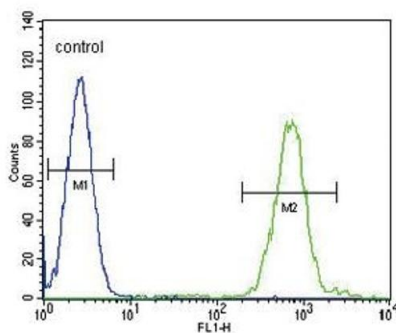
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. SLC8A1 Antibody (Center) (ABIN652886 and ABIN2842573) IHC analysis in formalin fixed and paraffin embedded mouse brain followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SLC8A1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of SLC8A1 Antibody (Center) (ABIN652886 and ABIN2842573) in HL-60 (lane 1), K562 (lane 2) cell line lysates (35 µg/lane). SLC8A1 (arrow) was detected using the purified Pab.



Flow Cytometry

Image 3. SLC8A1 Antibody (Center) (ABIN652886 and ABIN2842573) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.