

SLC8A1 Antibody

Catalog No: #43934

Package Size: #43934 100ul

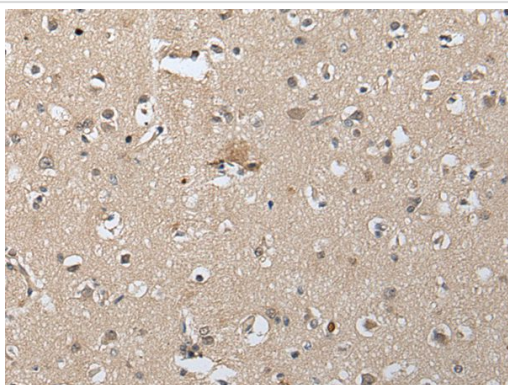
Description

Product Name	SLC8A1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen affinity purification
Applications	IHC
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous levels of total SLC8A1 protein.
Immunogen Type	peptide
Immunogen Description	Synthetic peptide of human SLC8A1
Conjugates	Unconjugated
Target Name	SLC8A1
Other Names	NCX1
Accession No.	Swiss-Prot#: P32418NCBI Gene ID: 6546
Concentration	1mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN ₃ , 40% Glycerol.
Storage	Store at -20°C

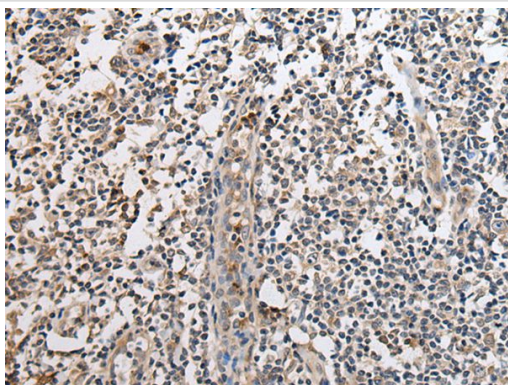
Application Details

Immunohistochemistry: 1: 20-100

Images



The image on the left is immunohistochemistry of paraffin-embedded Human brain tissue using SLC8A1 Antibody at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification: x200)



The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using SLC8A1 Antibody at dilution 1/25, on the right is treated with synthetic peptide. (Original magnification: x200)

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.

Published Papers

Menglong Wang;Tongrui Wang;Yang Liu;Lurong Zhou;Yuanping Yin;Feng Gu et al., Identification and study of mood-related biomarkers and potential molecular mechanisms in type 2 diabetes mellitus., , (2025)

[PMID:39915429](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.