SLC9A1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SLC9A1, Polyclonal Antibody
Full Product Name	SLC9A1 Rabbit pAb
Product Gene Name	anti-SLC9A1 antibody
Product Synonym Names	APNH; APNH1; NHE1; SLC9A1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	In phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity Chromatography
Preparation and Storage	Store at 4 degree C short term. Store at -20 degree C long term. Avoid freeze/thaw cycle.
Molecular Weight	130kDa
OMIM	107310
3D Structure	ModBase 3D Structure for P19634
Immunogen	A synthesized peptide derived from human Sodium/Hydrogen Exchanger 1
Cellular Localization	Cell Membrane, Endoplasmic Reticulum, Membrane
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SLC9A1 antibody	Western Blot (WB)
Application Notes for anti-SLC9A1 antibody	WB: 1:500-1:2000
Related Product Information for anti-SLC9A1 antibody	Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Plays an important role in signal transduction.
Other Notes	Small volumes of anti-SLC9A1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SLC9A1 purchase	MBS8543851 is an antibody targeting SLC9A1. Also known as SLC9A1 Rabbit pAb. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SLC9A1. It may not necessarily be applicable to this product.

NCBI GI #	127809
NCBI GeneID	6548
NCBI Accession #	P19634.2

UniProt Primary Accession #	P19634
UniProt Related Accession #	P19634
NCBI Official Full Name	Sodium/hydrogen exchanger 1
NCBI Official Synonym Full Names	solute carrier family 9 member A1
NCBI Official Symbol	SLC9A1
NCBI Official Synonym Symbols	APNH; NHE1; LIKNS; NHE-1; PPP1R143
UniProt Protein Name	Sodium/hydrogen exchanger 1
UniProt Synonym Protein Names	APNH; Na(+)/H(+) antiporter, amiloride-sensitive; Na(+)/H(+) exchanger 1; NHE-1; Solute carrier family 9 member 1
Protein Family	Sodium/hydrogen exchanger
UniProt Gene Name	SLC9A1
UniProt Synonym Gene Names	APNH1; NHE1; NHE-1
UniProt Entry Name	SL9A1_HUMAN
NCBI Protein Information	sodium/hydrogen exchanger 1
NCBI Summary for SLC9A1	This gene encodes a Na+/H+ antiporter that is a member of the solute carrier family 9. The encoded protein is a plasma membrane transporter that is expressed in the kidney and intestine. This protein plays a central role in regulating pH homeostasis, cell migration and cell volume. This protein may also be involved in tumor growth. [provided by RefSeq, Sep 2011]
UniProt Comments for SLC9A1	NHE1: sodium/hydrogen exchanger 1. Belongs to the Na(+)/H(+) exchanger family. Involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. Major proton extruding system driven by the inward sodium ion chemical gradient. Protein type: Membrane protein, multi-pass; Transporter, SLC family; Membrane protein, integral; Motility/polarity/chemotaxis; Transporter Chromosomal Location of Human Ortholog: 1p36.1-p35 Cellular Component: endoplasmic reticulum membrane; focal adhesion; cell surface; mitochondrion; basolateral plasma membrane; endoplasmic reticulum; integral to plasma membrane; T-tubule; integral to membrane; lipid raft; nucleoplasm; perinuclear region of cytoplasm; lamellipodium; apical plasma membrane; cytoplasm; plasma membrane Molecular Function: protein binding, bridging; calmodulin binding; protein binding; phosphatidylinositol-4,5-bisphosphate binding; protein complex scaffold; solute:hydrogen antiporter activity; calcium-dependent protein binding; sodium:hydrogen antiporter activity; protein phosphatase 2B binding Biological Process: positive regulation of NFAT protein import into nucleus; glycosaminoglycan metabolic process; pathogenesis; cardiac muscle cell differentiation; hyaluronan catabolic process; regulation of pH; positive regulation of action potential; cell growth; transmembrane transport; response to drug; cellular sodium ion homeostasis; cell migration; maintenance of cell polarity; positive regulation of cell growth; protein oligomerization; cellular response to insulin stimulus; regulation of stress fiber formation; carbohydrate metabolic process; regulation of focal adhesion formation; regulation of intracellular pH; ion transport; positive regulation of transcription from RNA polymerase II promoter; response to acidity; regulation of sensory perception of pain; hyaluronan metabolic process; negative regulation of apoptosis Disease: Lichtenstein-knorr Syndrome
Research Articles on SLC9A1	**1.** We believe the preclinical work herein discussed provides a persuasive rationale for examining the potential role of NHE-1 inhibitors for cardiac resuscitation in humans.

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