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anti-SLC9A1 antibody (AA 543-815)



Overview

Purification:

Images



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Quantity:	100 μg
Target:	SLC9A1
Binding Specificity:	AA 543-815
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Sodium/hydrogen exchanger 1(SLC9A1) detection. Tested with WB, IHC-P in Human, Mouse, Rat.
Immunogen:	E.coli-derived human SLC9A1 recombinant protein (Position: H543-Q815). Human SLC9A1 shares 92% and 93% amino acid (aa) sequences identity with mouse and rat SLC9A1,
	respectively.
Isotype:	IgG
Isotype: Cross-Reactivity (Details):	

Protein Name: Sodium/hydrogen exchanger 1

Immunogen affinity purified.

Gene Name: solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1

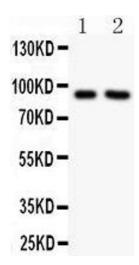
Target Details

Target:	SLC9A1
Alternative Name:	SLC9A1 (SLC9A1 Products)
Background:	NHE1, also known as SLC9A1, is an isoform of sodium-hydrogen antiporter that in humans is encoded by the SLC9A1 gene. It is mapped to 1p36.11. NHE1 is a ubiquitous membrane-bound enzyme involved in pH regulation of vertebrate cells. It is specifically inhibited by the diuretic drug amiloride and activated by a variety of signals including growth factors, mitogens, neurotransmitters, tumor promoters, and others. The plasma membrane ion exchanger NHE1 acts as an anchor for actin filaments to control the integrity of the cortical cytoskeleton. And a structural role for NHE1 in regulating the cortical cytoskeleton that is independent of its function as an ion exchanger. NHE1 is a plausible candidate gene for human essential hypertension.
	antibody Na Li countertransporter antibody Na(+)/H(+) antiporter antibody Na(+)/H(+) exchanger 1 antibody Na+ H+ antiporter amiloride-sensitive antibody Na+ H+ antiporter antibody NHE-1 antibody NHE-1 antibody NHE-1 antibody SLC9A1 antibody Sodium hydrogen exchanger 1 antibody Sodium/hydrogen exchanger 1 antibody Sodium/hydrogen exchanger 1 antibody Solute carrier family 9 antibody Solute carrier family 9 member 1 antibody Solute carrier family 9 sodium hydrogen exchanger isoform 1 antiporter Na+ H+ amiloride sensitive antibody Solute carrier family 9 subfamily A (NHE1 cation proton antiporter 1) member 1 antibody Solute carrier family 9 subfamily A member 1 antibody
Gene ID:	6548
UniProt:	P19634
Pathways: Application Details	Glycosaminoglycan Metabolic Process, Proton Transport
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for SLC9A1 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for th staining of formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.

Application Details

Application Details	
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.
	It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezi

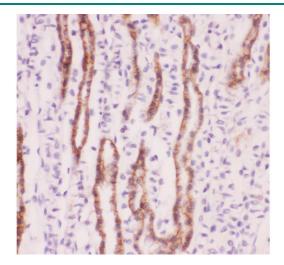
Images



and thawing.

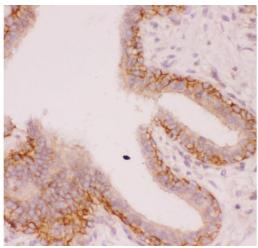
Western Blotting

Image 1. Anti-SLC9A1 Picoband antibody, All lanes: Anti SLC9A1 at 0.5ug/ml Lane 1: PC-12 Whole Cell Lysate at 40ug Lane 2: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 91KD Observed bind size: 91KD



Immunohistochemistry

Image 2. Anti-SLC9A1 Picoband antibody, IHC(P): Mouse Kidney Tissue



Immunohistochemistry

Image 3. Anti-SLC9A1 Picoband antibody, IHC(P): Human Mammary Cancer Tissue

Please check the product details page for more images. Overall 5 images are available for ABIN3043932.