

Anti-SLC9A2 Antibody
Catalog # ABO11529**Specification**

Anti-SLC9A2 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q9UBY0
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Sodium/hydrogen exchanger 2 (SLC9A2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SLC9A2 Antibody - Additional Information

Gene ID 6549

Other Names

Sodium/hydrogen exchanger 2, Na(+)/H(+) exchanger 2, NHE-2, Solute carrier family 9 member 2, SLC9A2, NHE2

Calculated MW

91520 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat

Western blot, 0.1-0.5 µg/ml, Rat, Human, Mouse

Subcellular Localization

Membrane; Multi-pass membrane protein.

Tissue Specificity

Expressed in skeletal muscle, colon and kidney. Lower levels in the testis, prostate, ovary, and small intestine.

Protein Name

Sodium/hydrogen exchanger 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human SLC9A2(666-684aa RYLSPKNTKLPEKLQKRR), different from the related rat and mouse sequences by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

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 freezing and thawing.

Sequence Similarities

Belongs to the monovalent cation:proton antiporter 1 (CPA1) transporter (TC 2.A.36) family.

Anti-SLC9A2 Antibody - Protein Information

Name SLC9A2 ([HGNC:11072](#))

Synonyms NHE2

Function

Plasma membrane Na(+)/H(+) antiporter. Mediates the electroneutral exchange of intracellular H(+) ions for extracellular Na(+) (PubMed:10444453). Major apical Na(+)/H(+) exchanger in the base of the colonic crypt. Controls in the colonic crypt intracellular pH (pHi) to direct colonic epithelial cell differentiation into the absorptive enterocyte lineage at the expense of the secretory lineage (By similarity).

Cellular Location

Apical cell membrane; Multi-pass membrane protein

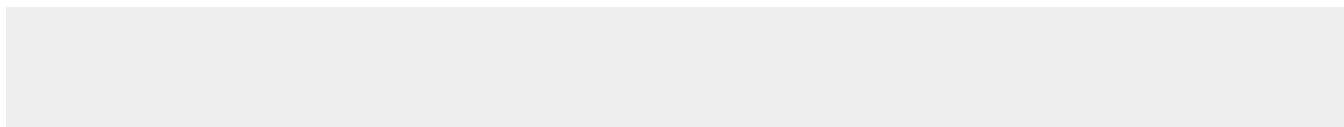
Tissue Location

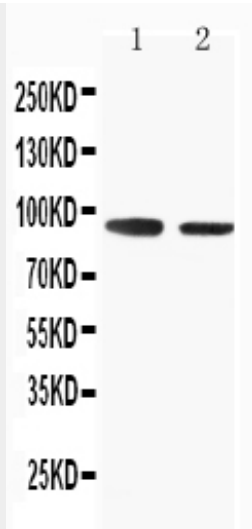
Expressed in skeletal muscle, colon and kidney. Lower levels in the testis, prostate, ovary, and small intestine (PubMed:10444453, PubMed:8843774). In the distal colon, expressed along the cryptal axis (PubMed:8843774).

Anti-SLC9A2 Antibody - Protocols

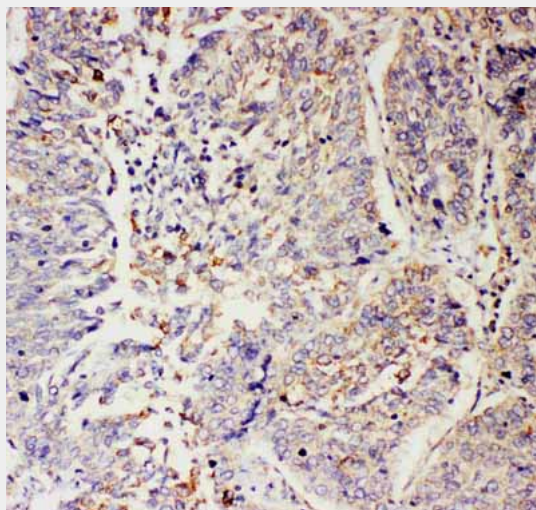
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

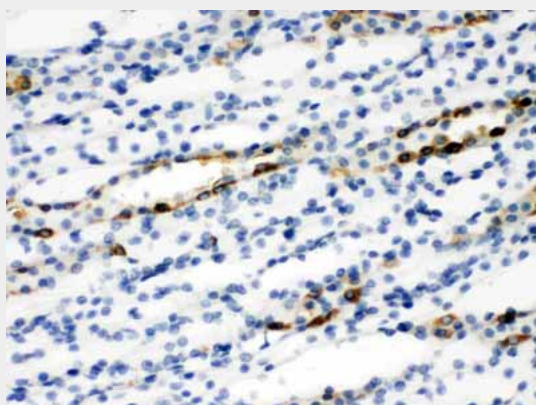
Anti-SLC9A2 Antibody - Images



Anti-SLC9A2 antibody, ABO11529, Western blotting
Lane 1: Rat Skeletal Muscle Tissue Lysate
Lane 2: Rat Kidney Tissue Lysate



Anti-SLC9A2 antibody, ABO11529, IHC(P)
IHC(P): Human Lung Cancer Tissue



Anti-SLC9A2 antibody, ABO11529, IHC(P)
IHC(P): Rat Kidney Tissue

Anti-SLC9A2 Antibody - Background

Sodium⁺hydrogen exchanger 2, also called SLC9A2 or NHE2 is a protein that in humans is encoded by the SLC9A2 gene. This gene is mapped to 2q12.1. The Na⁺/H⁺ exchangers(NHE) are

membrane proteins involved in cell volume. The exchanger(which they called NHE2) is found in several tissues, including intestine and kidney, and is highly expressed in villus and distal convoluted tubules. This gene is involved in pH regulation to eliminate acids generated by active metabolism or to counter adverse environmental conditions. It seems to play an important role in colonic sodium absorption.