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SLC9A2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12705b

Specification

SLC9A2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9UBY0
Other Accession	NP_003039.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**91520**
Antigen Region	**754-783**

SLC9A2 Antibody (C-term) - 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

Target/Specificity
This SLC9A2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 754-783 amino acids from the C-terminal region of human SLC9A2.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
SLC9A2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC9A2 Antibody (C-term) - 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

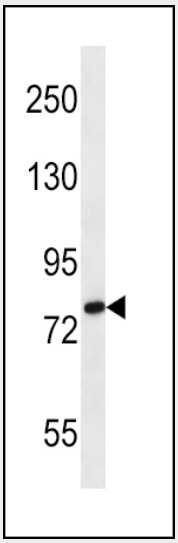
Tissue Location
Expressed in skeletal muscle, colon and kidney. Lower levels in the testis, prostate, ovary, and small intestine (PubMed:10444453, PubMed:8843774). In the distal colon, expressed along the cryptal axis (PubMed:8843774).

SLC9A2 Antibody (C-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC9A2 Antibody (C-term) - Images



SLC9A2 Antibody (C-term) (Cat. #AP12705b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the SLC9A2 antibody detected the SLC9A2 protein (arrow).

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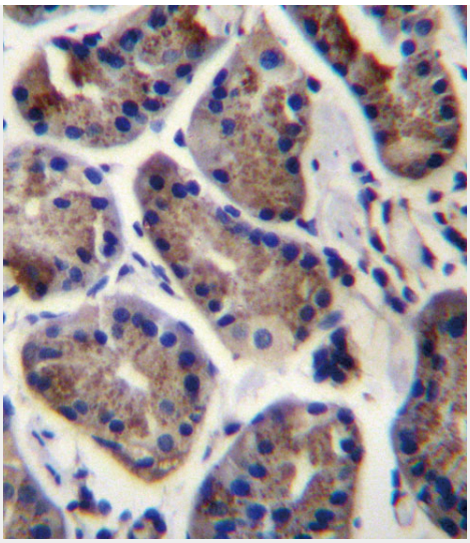

SLC9A2 Antibody (C-term) (Cat. #AP12705b)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC9A2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SLC9A2 Antibody (C-term) - Background

SLC9A2 is 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. Seems to play an important role in colonic sodium absorption.

SLC9A2 Antibody (C-term) - References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Son, E.J., et al. J. Cell. Biochem. 107(5):965-972(2009)
Joly, F., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 297 (1), G116-G123 (2009) :
Musch, M.W., et al. Am. J. Physiol. Gastrointest. Liver Physiol. 296 (2), G202-G210 (2009) :
Beltran, A.R., et al. Pflugers Arch. 455(5):799-810(2008)