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SLC9A6 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13226b

Specification

SLC9A6 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q92581
Other Accession	NP_006350.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**77917**
Antigen Region	**501-530**

SLC9A6 Antibody (C-term) - Additional Information

Gene ID 10479

Other Names
Sodium/hydrogen exchanger 6, Na(+)/H(+) exchanger 6, NHE-6, Solute carrier family 9 member 6, SLC9A6, KIAA0267, NHE6

Target/Specificity
This SLC9A6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 501-530 amino acids from the C-terminal region of human SLC9A6.

Dilution
WB~~1:1000
IHC-P~~1:10~50
E~~Use at an assay dependent concentration.

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
SLC9A6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC9A6 Antibody (C-term) - Protein Information

Name SLC9A6 (HGNC:11079)

Synonyms KIAA0267, NHE6

Function Endosomal Na(+), K(+)/H(+) antiporter (PubMed:15522866, PubMed:28635961, PubMed:31676550, PubMed:32277048). Mediates the electroneutral exchange of endosomal luminal H(+) for a cytosolic Na(+) or K(+). By facilitating proton efflux, SLC9A6 counteracts the acidity generated by vacuolar (V)-ATPase, thereby limiting luminal acidification. Responsible for alkalizing and maintaining the endosomal pH, and consequently in, e.g., endosome maturation and trafficking of recycling endosomal cargo (PubMed:15522866, PubMed:28635961, PubMed:31676550, PubMed:32277048). Plays a critical role during neurodevelopment by regulating synaptic development and plasticity (By similarity). Implicated in the maintenance of cell polarity in a manner that is dependent on its ability to modulate intravesicular pH (PubMed:20130086). Regulates intracelular pH in some specialized cells, osteoclasts and stereocilia where this transporter localizes to the plasma membrane (By similarity).

Cellular Location
Endosome membrane; Multi-pass membrane protein. Recycling endosome membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Note=Present predominantly in the recycling compartments including early and recycling endosomes, but undergoes plasma membrane localization during vesicular recycling, which is enhanced upon certain stimuli, such as hypoxia (PubMed:11940519, PubMed:28635961, PubMed:30296617). Has a major plasmalemmal distribution in a few specialized cells, such as in vestibular hair bundles and osteoblasts (By similarity) {ECO:0000250|UniProtKB:A1L3P4, ECO:0000269|PubMed:11940519, ECO:0000269|PubMed:28635961, ECO:0000269|PubMed:30296617}

Tissue Location
Ubiquitous. High expression in brain, skeletal muscle, and heart, but is also detected at lower levels in most other tissues.

SLC9A6 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

SLC9A6 Antibody (C-term) - Images

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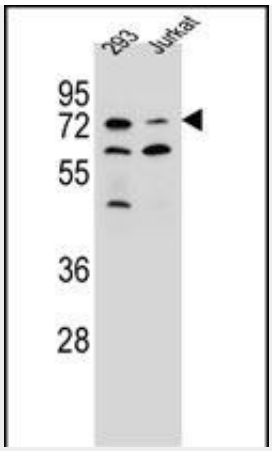
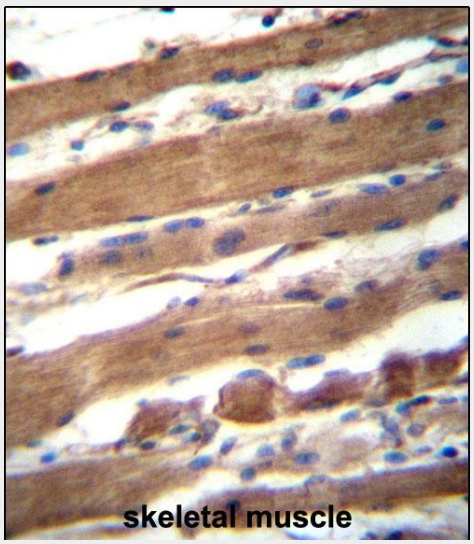


SLC9A6 Antibody (C-term) (Cat. #AP13226b) western blot analysis in 293,Jurkat cell line lysates (35ug/lane).This demonstrates the SLC9A6 antibody detected the SLC9A6 protein (arrow).



SLC9A6 Antibody (C-term) (Cat. #AP13226b)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC9A6 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SLC9A6 Antibody (C-term) - Background

This gene encodes a sodium-hydrogen exchanger that is amember of the solute carrier family 9. The encoded protein localizes to early and recycling endosomes and may be involved in regulating endosomal pH and volume. Defects in this gene are associated with X-linked syndromic mental retardation, Christianson type. Alternate splicing results in multiple transcript variants.

SLC9A6 Antibody (C-term) - References

Garbern, J.Y., et al. Brain 133 (PT 5), 1391-1402 (2010) :
Ohgaki, R., et al. Mol. Biol. Cell 21(7):1293-1304(2010)
Fukura, N., et al. J. Membr. Biol. 234(3):149-158(2010)
Fichou, Y., et al. Eur. J. Hum. Genet. 17(11):1378-1380(2009)
Roxrud, I., et al. Exp. Cell Res. 315(17):3014-3027(2009)