10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLC12A7 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP12392a

Specification

SLC12A7 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y666
Other Accession	NP_006589.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**119106**
Antigen Region	**89-117**

SLC12A7 Antibody (N-term) - Additional Information

Gene ID 10723

Other Names
Solute carrier family 12 member 7, Electroneutral potassium-chloride cotransporter 4, K-Cl cotransporter 4, SLC12A7, KCC4

Target/Specificity
This SLC12A7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-117 amino acids from the N-terminal region of human SLC12A7.

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
SLC12A7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SLC12A7 Antibody (N-term) - Protein Information

Name SLC12A7 (HGNC:10915)

Function Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:10913127). May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity).

Cellular Location
Cell membrane; Multi-pass membrane protein

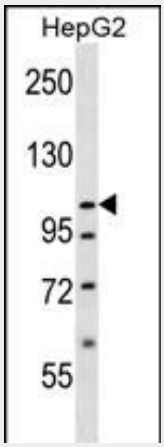
Tissue Location
Detected in muscle, brain, lung, heart and kidney.

SLC12A7 Antibody (N-term) - Protocols

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

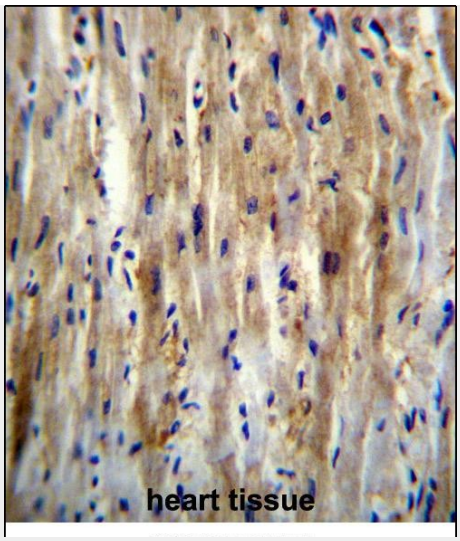
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SLC12A7 Antibody (N-term) - Images



SLC12A7 Antibody (N-term) (Cat. #AP12392a) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the SLC12A7 antibody detected the SLC12A7 protein (arrow).

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SLC12A7 Antibody (N-term) (Cat. #AP12392a)immunohistochemistry analysis in formalin fixed and paraffin embedded human heart tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of SLC12A7 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SLC12A7 Antibody (N-term) - Background

SLC12A7 mediates electroneutral potassium-chloride cotransport when activated by cell swelling. May mediate K(+) uptake into Deiters' cells in the cochlea and contribute to K(+) recycling in the inner ear. Important for the survival of cochlear outer and inner hair cells and the maintenance of the organ of Corti. May be required for basolateral Cl(-) extrusion in the kidney and contribute to renal acidification (By similarity).

SLC12A7 Antibody (N-term) - References

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Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)
Chen, Y.F., et al. Cancer Res. 69(22):8585-8593(2009)
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