

**SLC12A6 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP12382a****Specification**

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**SLC12A6 Antibody (N-term) - Product Information**

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Application       | IHC-P, WB,E                                               |
| Primary Accession | <a href="#">O9UHW9</a>                                    |
| Other Accession   | <a href="#">NP_598408.1</a> , <a href="#">NP_005126.1</a> |
| Reactivity        | Human                                                     |
| Host              | Rabbit                                                    |
| Clonality         | Polyclonal                                                |
| Isotype           | Rabbit IgG                                                |
| Calculated MW     | 127617                                                    |
| Antigen Region    | 13-42                                                     |

**SLC12A6 Antibody (N-term) - Additional Information****Gene ID** 9990**Other Names**

Solute carrier family 12 member 6, Electroneutral potassium-chloride cotransporter 3, K-Cl cotransporter 3, SLC12A6, KCC3

**Target/Specificity**

This SLC12A6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-42 amino acids from the N-terminal region of human SLC12A6.

**Dilution**

IHC-P~~1:10~50

WB~~1:1000

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**

SLC12A6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**SLC12A6 Antibody (N-term) - Protein Information****Name** SLC12A6 ([HGNC:10914](#))

**Function** [Isoform 1]: Mediates electroneutral potassium-chloride cotransport when activated by cell swelling (PubMed:[10600773](#), PubMed:[11551954](#), PubMed:[16048901](#), PubMed:[18566107](#), PubMed:[19665974](#), PubMed:[21628467](#), PubMed:[27485015](#)). May contribute to cell volume homeostasis in single cells (PubMed:[16048901](#), PubMed:[27485015](#)).

#### Cellular Location

Cell membrane; Multi-pass membrane protein. Basolateral cell membrane {ECO:0000250|UniProtKB:Q924N4}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q924N4}

#### Tissue Location

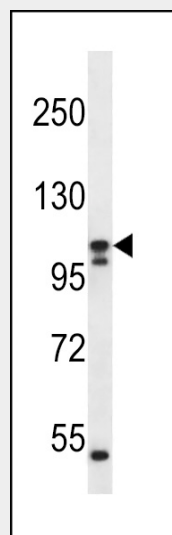
Expressed in brain (at protein level) (PubMed:21628467). Highly expressed in heart, brain and kidney Detected at lower levels in skeletal muscle, placenta, lung and pancreas (PubMed:10600773). Detected in umbilical vein endothelial cells (PubMed:16048901). [Isoform 5]: Testis specific.

### SLC12A6 Antibody (N-term) - Protocols

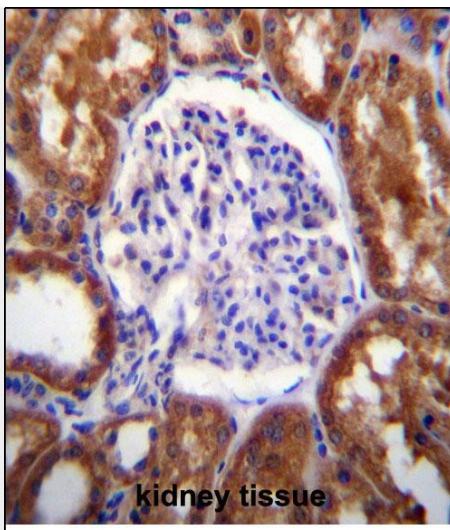
Provided below are standard protocols that you may find useful for product applications.

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

### SLC12A6 Antibody (N-term) - Images



SLC12A6 Antibody (N-term) (Cat. #AP12382a) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the SLC12A6 antibody detected the SLC12A6 protein (arrow).



SLC12A6 Antibody (N-term) (Cat. #AP12382a) immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SLC12A6 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **SLC12A6 Antibody (N-term) - Background**

This gene is a member of the K-Cl cotransporter (KCC) family. K-Cl cotransporters are integral membrane proteins that lower intracellular chloride concentrations below the electrochemical equilibrium potential. The proteins encoded by this gene are activated by cell swelling induced by hypotonic conditions. Alternate splicing results in multiple transcript variants encoding different isoforms. Mutations in this gene are associated with agenesis of the corpus callosum with peripheral neuropathy.

#### **SLC12A6 Antibody (N-term) - References**

Rinehart, J., et al. Cell 138(3):525-536(2009)  
Rudnik-Schoneborn, S., et al. Neuropediatrics 40(3):129-133(2009)  
de Krom, M., et al. Biol. Psychiatry 65(7):625-630(2009)  
Moser, D., et al. Neuropsychopharmacology 34(2):458-467(2009)  
Salin-Cantegrel, A., et al. Hum. Mol. Genet. 17(17):2703-2711(2008)