

SLC12A3 polyclonal antibody (APC)

Catalog # PAB28758

Size 100 ug

Applications

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Application Data with Unconjugated Antibody

Western Blot (Tissue lysate)

Western blot analysis of SLC12A3 in rat kidney with SLC12A3 polyclonal antibody (Cat # PAB28748) at 1:1000 dilution.

Lane 1: Cortex

Lane 2: Cortex X Medulla

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Application Data with Unconjugated Antibody

Immunofluorescence

Immunofluorescence staining of SLC12A3 in rat kidney with SLC12A3 polyclonal antibody (Cat # PAB28748) at 1:200 dilution, DAPI merged.

Specification

Product Description	Rabbit polyclonal antibody raised against recombinant SLC12A3.
Immunogen	A synthetic peptide corresponding to amino acids 74-95 at N-terminus of rat SLC12A3.
Host	Rabbit
Reactivity	Human, Mouse, Rat

Specificity	1 ug/mL of PAB28758 was sufficient for detection of SLC12A3 ,~160kDa, in 10ug of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Form	Liquid
Conjugation	APC
Purification	Protein A purification
Recommend Usage	Immunocytochemistry/Immunofluorescence Immunohistochemistry (1:200) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.09% sodium azide).
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. Application Data with Unconjugated Antibody Western Blot (Tissue lysate) Western blot analysis of SLC12A3 in rat kidney with SLC12A3 polyclonal antibody (Cat # PAB28748) at 1:1000 dilution. Lane 1: Cortex Lane 2: Cortex X Medulla Immunofluorescence Immunofluorescence staining of SLC12A3 in rat kidney with SLC12A3 polyclonal antibody (Cat # PAB28748) at 1:200 dilution, DAPI merged.

Applications

- Western Blot
- Immunohistochemistry
- Immunofluorescence

Gene Info — SLC12A3

Entrez GeneID [6559](#)

Protein Accession# [NP_000330](#); [NP_062218](#); [P55018](#); [P55017](#)

Gene Name	SLC12A3
Gene Alias	FLJ96318, NCCT, TSC
Gene Description	solute carrier family 12 (sodium/chloride transporters), member 3
Omim ID	263800 600968
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a renal thiazide-sensitive sodium-chloride cotransporter that is important for electrolyte homeostasis. This cotransporter mediates sodium and chloride reabsorption in the distal convoluted tubule. Mutations in this gene cause Gitelman syndrome, a disease similar to Bartter's syndrome, that is characterized by hypokalemic alkalosis combined with hypomagnesemia, low urinary calcium, and increased renin activity associated with normal blood pressure. This cotransporter is the target for thiazide diuretics that are used for treating high blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	Na-Cl symporter NaCl electroneutral thiazide-sensitive cotransporter sodium-chloride cotransporter, thiazide-sensitive solute carrier family 12, member 3 thiazide-sensitive Na-Cl cotransporter

Gene Info — Slc12a3

Entrez GeneID	54300
Protein Accession#	NP_000330; NP_062218; P55018; P55017
Gene Name	Slc12a3
Gene Alias	NCC, TSC
Gene Description	solute carrier family 12 (sodium/chloride transporters), member 3
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	solute carrier family 12, member 3 thiazide-sensitive Na-Cl cotransporter

Disease

- [Albuminuria](#)
- [Alkalosis](#)
- [Cardiovascular Diseases](#)

- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
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