

Rabbit NCC Polyclonal Antibody | anti-SLC12A3 antibody

NCC Antibody: ATTO 488

CATALOG # AAA103653	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Western Blot
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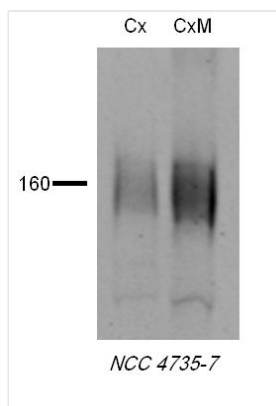
PRODUCT SYNONYMS

NCC; Polyclonal Antibody; NCC Antibody: ATTO 488; Slc12a3; anti-SLC12A3 antibody

PRODUCT SPECIFICATIONS

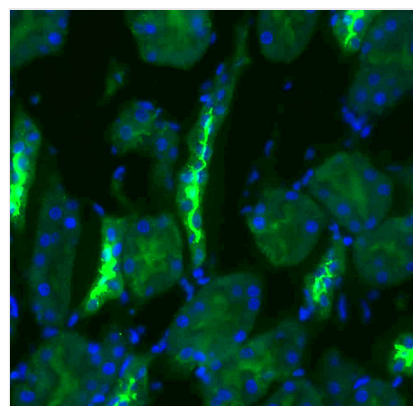
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Form/Format	Affinity Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	1030
Applicable Applications for anti-SLC12A3 antibody	IF (Immunofluorescence), WB (Western Blot)
Conjugate	ATTO 488
Storage Buffer	PBS, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES



WB (Western Blot)

Western blot analysis of Rat tissue lysates showing detection of NCC protein using Rabbit Anti-NCC Polyclonal Antibody (SPC-402). Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody (SPC-402) at 1:1000.



IHC (Immunohistochemistry)

Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody (SPC-402). Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody (SPC-402) at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).

ADDITIONAL INFORMATION

Related Product Information for anti-SLC12A3 antibody	Background Info: Detects ~160kDa Scientific Background: NCC, a thiazide-sensitive NaCl co-transporter, is found on the apical membrane of the distal convoluted tubule, where it is the principal mediator of Na ⁺ and Cl ⁻ reabsorption in this segment of the nephron. It is activated by phosphorylation, and has been implicated in renal NaCl and K ⁺ homeostasis (1). Regulation of NCC expression and phosphorylation by dietary NaCl restriction appears to involve SGK1(1). In experiments with angiotensin II-infused mice, increased sensitivity to Ang II may involved over-activity of NCC (2). Therefore, NCC is the target of thiazide diuretics used in the treatment of hypertension (1). Molecular experiments have also shown that NCC has been detected in the lens cortex, core and fiber cells of a rat (3).
Product Categories/Family for anti-SLC12A3 antibody	Ion Channels ; Transporters
References	1. Vallon V., Schroth J, Lang F, Kuhl D and Uchida S. (2009) Am J Physiol Renal Physiol. 297(3): F704-712. 2. Tiwari S., et al. (2009) Am J Nephrol. 30(6): 554-562. 3. Chee K.N., Vorontsova I., Lim J.C., Kistler J. and Donaldson P.J. (2010) Mol Vis. 16:800-812.

NCBI AND UNIPROT INFORMATION

NCBI GI #	186910315
NCBI GeneID	6559
NCBI Accession #	NP_000330 ; NP_062218
NCBI GenBank Nucleotide #	NM_000339.2
UniProt Accession #	P55018 ; P55017
Molecular Weight	110,554 Da
NCBI Official Full Name	solute carrier family 12 member 3 isoform 1
NCBI Official Synonym Full Names	solute carrier family 12 (sodium/chloride transporter), member 3
NCBI Official Symbol	SLC12A3
NCBI Official Synonym Symbols	NCC; TSC; NCCT
NCBI Protein Information	solute carrier family 12 member 3; Na-Cl symporter; Na-Cl cotransporter; thiazide-sensitive Na-Cl cotransporter; thiazide-sensitive sodium-chloride cotransporter; NaCl electroneutral thiazide-sensitive cotransporter
UniProt Protein Name	Solute carrier family 12 member 3
UniProt Gene Name	Slc12a3
UniProt Synonym Gene Names	Tsc
UniProt Entry Name	S12A3_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/ncc-antibody-immunofluorescence-western-blot-elisa/103653>