



Datasheet for ABIN2486285
anti-SLC12A3 antibody (AA 74-95) (Atto 594)



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4 Images

Overview

Quantity:	100 µg
Target:	SLC12A3
Binding Specificity:	AA 74-95
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC12A3 antibody is conjugated to Atto 594
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunoelectron Microscopy (IEM)

Product Details

Immunogen:	Produced against a synthetic peptide mapping to a segment of rat NCC (amino acids 74-95), N-terminal
Specificity:	Detects ~160 kDa.
Cross-Reactivity:	Dog, Human, Mouse, Rat
Purification:	Affinity Purified

Target Details

Target:	SLC12A3
Alternative Name:	NCC (SLC12A3 Products)

Target Details

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).

Gene ID: 54300, 6559

NCBI Accession: [NP_062218](#), [NP_000330](#)

UniProt: [P55018](#), [P55017](#)

Application Details

Application Notes:

- WB (1:1000)
- IHC (1:200)
- optimal dilutions for assays should be determined by the user.

Comment: 1 µg/ml of ABIN2486285 was sufficient for detection of NCC3 in 10 µg of rat kidney tissue lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

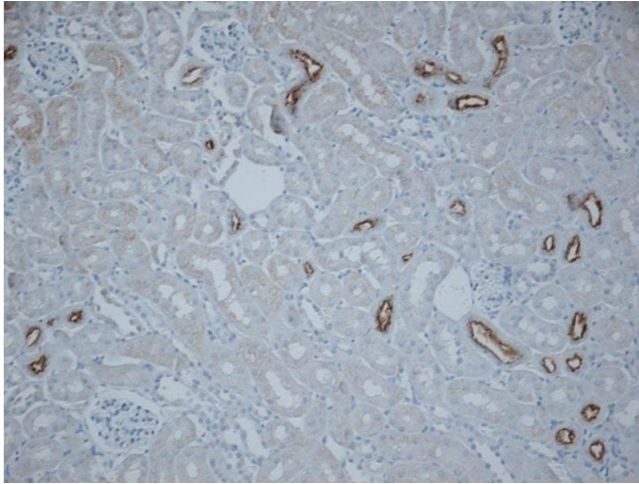
Buffer: PBS, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

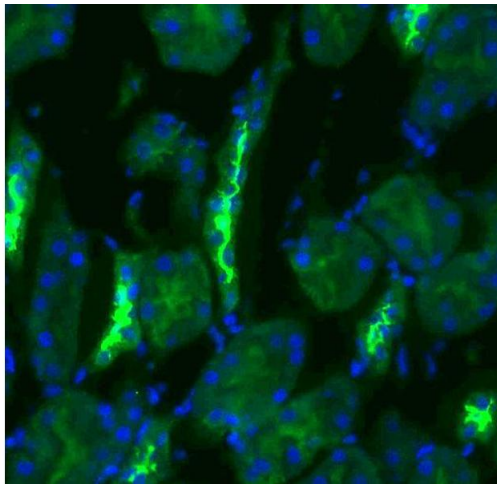
Storage: 4 °C

Storage Comment: Conjugated antibodies should be stored at 4°C



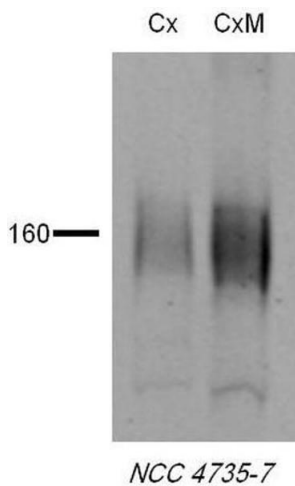
Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody (ABIN2486285). Tissue: kidney tissue. Species: Mouse. Fixation: paraformaldehyde-fixed paraffin-embedded. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody (ABIN2486285) at 1:500 for Overnight at 4 °C . Secondary Antibody: Biotinylated Goat Anti-Rabbit IgG at 1:500 for 30 min at RT. Courtesy of: Brigitte Rogge.



Immunohistochemistry

Image 2. Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody . Tissue: kidney tissue. Species: Rat. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody at 1:200. Secondary Antibody: FITC Goat Anti-Rabbit (green).



Western Blotting

Image 3. Western blot analysis of Rat tissue lysates showing detection of NCC protein using Rabbit Anti-NCC Polyclonal Antibody . Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody at 1:1000.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2486285.