

Product Datasheet

NCC Antibody: Biotin (orb152700)

Description	Rabbit polyclonal to NCC (Biotin). 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. 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. Therefore, NCC is the target of thiazide diuretics used in the treatment of hypertension. Molecular experiments have also shown that NCC has been detected in the lens cortex, core and fiber cells of a rat..
Species/Host	Rabbit
Reactivity	Canine, Human, Mouse, Rat
Conjugation	Biotin
Tested Applications	ELISA, ICC, IF, IHC, WB
Immunogen	Produced against a synthetic peptide mapping to a segment of rat NCC (amino acids 74-95), N-terminal
Target	NCC
Preservatives	136.36mM Ethanolamine, and 9.55mM Sodium Bicarbonate in 95.45% PBS
Concentration	1 mg/ml
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Application notes	1 µg/ml of SPC-402 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.
Clonality	Polyclonal

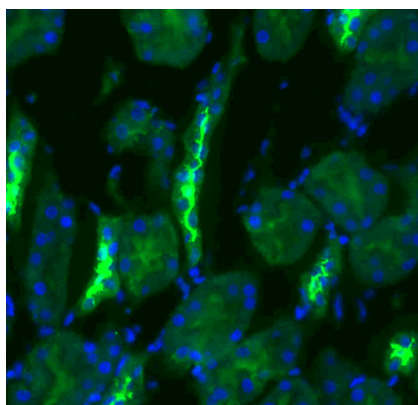
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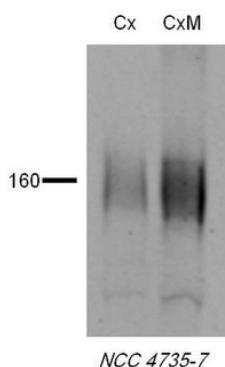
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MW	160kDa
Uniprot ID	P55017, P55018
NCBI	NP_000330, NP_062218
Entrez	54300, 6559
Dilution Range	WB (1:1000), IHC (1:200)
Expiration Date	12 months from date of receipt.



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).



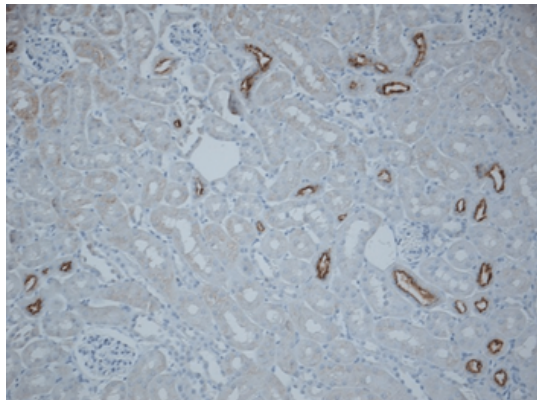
Western blot analysis of Rat tissue lysates showing detection of NCC protein using Rabbit Anti-NCC Polyclonal Antibody. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody at 1:1000.

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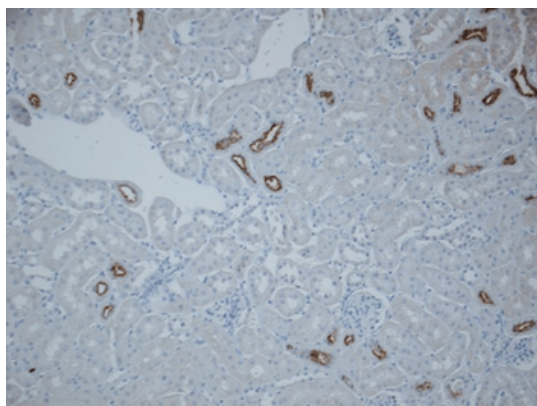
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Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody. Tissue: kidney tissue. Species: Mouse. Fixation: paraformaldehyde-fixed paraffin-embedded. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody at 1:500 for Overnight at 4°C.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



Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody. Tissue: kidney tissue. Species: Mouse. Fixation: paraformaldehyde-fixed paraffin-embedded. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody at 1:1000 for Overnight at 4°C. Secondary Antibody: Biotinylated Goat Anti-Rabbit IgG at 1:501 for 30 min at RT.

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