antibodies

Datasheet for ABIN2486296 anti-SLC12A3 antibody (AA 74-95) (PerCP)





Overview

| Quantity: | 100 µg |
|----------------------|---|
| Target: | SLC12A3 |
| Binding Specificity: | AA 74-95 |
| Reactivity: | Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SLC12A3 antibody is conjugated to PerCP |
| 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) |

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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 |
| | NACI 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) |

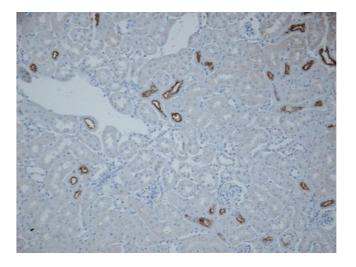
| Comment: | 1 μ g/ml of ABIN2486296 was sufficient for detection of NCC3 in 10 μ g of rat kidney tissue |
|---------------|---|
| | lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary |
| | antibody. |
| Restrictions: | For Research Use only |

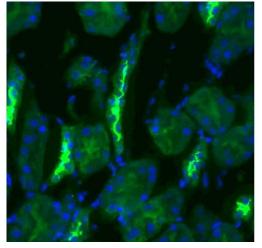
• optimal dilutions for assays should be determined by the user.

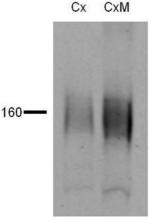
Handling

| 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 |

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NCC 4735-7

Immunohistochemistry

Image 1. Immunohistochemistry analysis using Rabbit Anti-NCC Polyclonal Antibody (ABIN2486296). Tissue: kidney tissue. Species: Mouse. Fixation: paraformaldehyde-fixed paraffin-embedded. Primary Antibody: Rabbit Anti-NCC Polyclonal Antibody (ABIN2486296) at 1:1000 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 ABIN2486296.

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