# Product datasheet Anti-NKCC2/SLC12A1 Antibody Catalog Number: BA3213

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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator, East Lake High-Tech Development Zone, Wuhan.

Web: www.boster.com Phone: 027-67845390/1/2 Email: boster@boster.com

<b>Product Name</b>	Anti-NKCC2/SLC12A1 Antibody	
Gene Name	SLC12A1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	IHC, WB	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human SLC12A1, identica to the related mouse sequence, different from the related rat sequence by one amino acid.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	121 kDa	
Dilution Ratios		1:500-2000 1:50-400 ate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 n/paraffin sections.) Optimal working dilutions must be

#### **Storage**

12 months from date of receipt, -20°C as supplied.

determined by end user.

### **Background Information**

Solute carrier family 12(sodium/potassium/chloride transporters), member 1, also called NKCC2 is specifically found in cells of the thick ascending limb of the loop of Henle in nephrons, the basic functional units of the kidney. This gene is mapped to 15q21.1. This gene encodes a kidney-specific sodium-potassium-chloride cotransporter that is expressed on the luminal membrane of renal epithelial cells of the thick ascending limb of Henle's loop and the macula densa. It plays a key role in concentrating urine and accounts for most of the NaCl resorption. It is sensitive to such diuretics as furosemide and bumetanide. Some Bartter-like syndromes result from defects in this gene. This gene plays a vital role in the regulation of ionic balance and cell volume.

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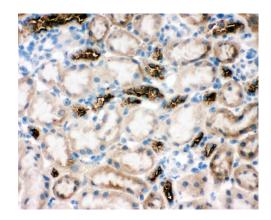
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### Reference

Anti-NKCC2/SLC12A1 Antibody被引用在2文献中。

### **Selected Validation Data**



IHC analysis of NKCC2/SLC12A1 using anti-NKCC2/SLC12A1 antibody (BA3213).

NKCC2/SLC12A1 was detected in frozen section of rat kidney tissue. The tissue section was incubated with rabbit anti-NKCC2/SLC12A1 Antibody (BA3213) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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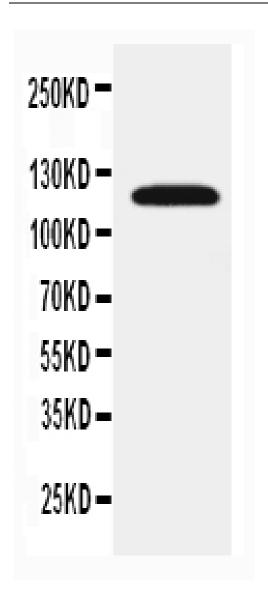
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Western blot analysis of NKCC2/SLC12A1 using anti-NKCC2/SLC12A1 antibody (BA3213). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat kidney tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-NKCC2/SLC12A1 antigen affinity purified polyclonal antibody (BA3213) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for NKCC2/SLC12A1 at approximately 121 kDa. The expected band size for NKCC2/SLC12A1 is at 121 kDa.