upstate | CHEMICON | Linco
THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

# RABBIT ANTI-THIAZIDE-SENSITIVE NaCl COTRANSPORTER AFFINITY PURIFIED POLYCLONAL ANTIBODY

**CATALOG NUMBER:** AB3553

**LOT NUMBER:**

**QUANTITY:** 50 µL

**SPECIFICITY:** Recognizes the renal thiazide-sensitive NaCl cotransporter (NCC). The antibody stains the apical plasma membrane and subapical membrane vesicles in renal distal convoluted tubule cells.

**IMMUNOGEN:** Synthetic peptide from the N-terminal of human/rat/mouse NCC.

**APPLICATIONS:** Immunoblotting: 1:2,000 using rat kidney extract. The antibody reacts with the 160-190 kDa protein (the molecular weight varies depending on conditions for protein extraction/electrophoresis). The suggested dilution and blocking buffer is 150 mM NaCl, 10 mM Tris, pH 7.4 containing 5% low fat milk and 0.04% Tween. Suggested transfer membrane is PVDF or Nylon. Suggested gel percentage is 7%. Overnight incubation with the antibody at 2-8°C is recommended.
Immunohistochemistry: 1:500-1:2,000 on rat or mouse kidney tissue. Suggested fixative is 3% paraformaldehyde for 5 minutes by vascular perfusion. Suggested blocking buffer is PBS containing 10% normal goat serum. Suggested dilution buffer is PBS containing 1% BSA. Overnight incubation with the antibody at 2-8°C is recommended.
Optimal working dilutions must be determined by the end user.

**SPECIES REACTIVITIES:** Rat, mouse, human and rabbit. Other species have not been tested.

**POSITIVE CONTROL:** Rat kidney.

**FORMAT:** Affinity immunoglobulin.

**PRESENTATION:** Liquid.

**STORAGE/HANDLING:** Maintain at -20°C in undiluted aliquots for up to 6 months after date of receipt. Avoid repeated freeze/thaw cycles.

upstate | CHEMICON | Linco

THE EXPERTISE OF UPSTATE®, CHEMICON® AND LINCO® IS NOW A PART OF MILLIPORE

**REFERENCES:**

Loffing J, Vallon V, Loffing-Cueni D, Aregger F, Richter K, Pietri L, Bloch-Faure M, Hoenderop JG, Shull GE, Meneton P, Kaissling B. Altered renal distal tubule structure and renal Na(+) and Ca(2+) handling in a mouse model for Gitelman's syndrome. *J Am Soc Nephrol.* 2004 Sep;**15**(9):2276-88.

Nijenhuis T, Hoenderop JG, Loffing J, van der Kemp AW, van Os CH, Bindels RJ. Thiazide-induced hypocalciuria is accompanied by a decreased expression of Ca2+ transport proteins in kidney. *Kidney Int.* 2003 Aug;**64**(2):555-64.

**RELATED USEFUL REFERENCE:**

Ellison DH: The thiazide-sensitive Na-Cl cotransporter and human disease: reemergence of an old player. *J Am Soc Nephrol*. 2003 **14**(2):538-40.

***Important Note:*** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION



28820 Single Oak Drive • Temecula, CA 92590
Technical Support: T: 1-800-MILLIPORE (1-800-645-5476) • F: 1-800-437-7502
www.millipore.com

5-31-2005/AB3553/CB