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PRODUCT DATASHEET

Anti-NCC (Thiazide sensitive NaCl cotransporter) (Thr53) Antibody

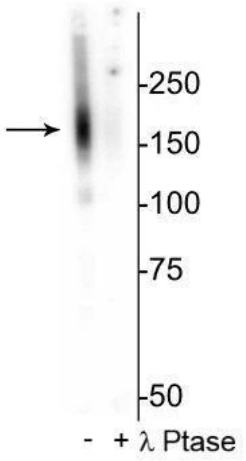
phosphosolutions ANTIBODIES THAT WORK | KO Validated | Pooled Serum

Product Details

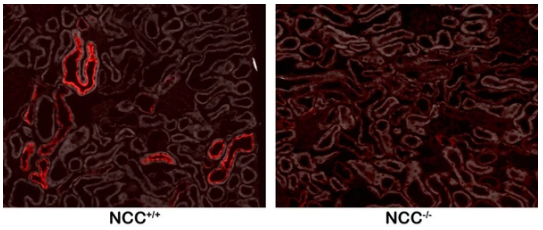
Available Variants	100 µL (SKU:p1311-53) 25 µL (SKU:p1311-53t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	SLC12A3
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, IHC, WB
Dilution Ranges	WB: 1:1000-1:6000 IHC: 1:100-1:10,000
Species Reactivity	Mouse
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Thr53 of mouse NCC, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~160 kDa NCC protein phosphorylated at Thr53. Band of interest smearing likely due to glycosylation. Immunolabeling is completely eliminated by treatment with l-phosphatase.
Molecular Weight	160 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2650477
UniProt ID	P59158 UniProt Summary: Electroneutral sodium and chloride ion cotransporter, which acts as a key mediator of sodium and chloride reabsorption in kidney distal convoluted tubules (PubMed:18270262, PubMed:21613606, PubMed:22009145, PubMed:36351028, PubMed:36792826). Also acts as a receptor for the pro-inflammatory cytokine IL18, thereby contributing to IL18-induced cytokine production, including IFNG, IL6, IL18 and CCL2 (By similarity). May act either independently of IL18R1, or in a complex with IL18R1 (By similarity). {ECO:0000250|UniProtKB:P59158, ECO:0000269|PubMed:18270262, ECO:0000269|PubMed:21613606, ECO:0000269|PubMed:22009145, ECO:0000269|PubMed:36351028, ECO:0000269|PubMed:36792826}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Guinea Pig, Hamster
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Thr53
NCBI Gene ID	20497

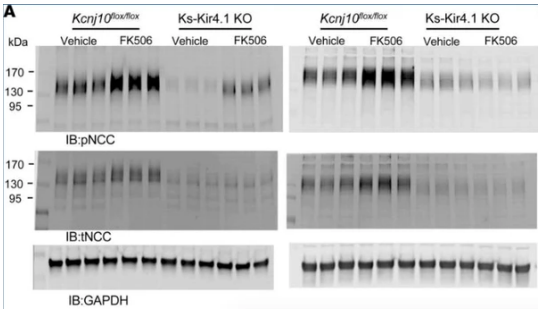
Product Images



Western blot of mouse kidney lysate showing specific immunolabeling of the ~160 kDa NCC protein phosphorylated at Thr53 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).



Immunostaining of PFA perfused frozen kidney sections from WT and NCC KO mice showing specific labeling of the NCC protein phosphorylated at Thr53 (Cat. p1311-53, red, 1:100,000) on the left and the absence of staining in the KO on the right. (Image courtesy of Lauren Miller, Ellison Lab, OHSU.)



Two Western blots show the abundance of pNCCT53 (Cat. p1311-53, 1:200) and tNCC in male Kcnj10fl/fl mice and in Ks-Kir4.1–KO mice treated with vehicle (control) and FK506 (0.75 mg/kg BW). Image from publication CC-BY-4.0. PMID: 36821372

Created on 30. October 2026 | All information without guarantee