## SIGNIFICANCE STATEMENT

Nedd4–2 associates with the epithelial Na<sup>+</sup> channel (ENaC), resulting in its ubiquitylation and then, internalization and degradation. In the absence of Nedd4–2, increased renal Na<sup>+</sup> absorption and increased BP are observed. Despite high levels of Nedd4–2 expression in intercalated cells, the role that these cells play in the changes in BP observed with Nedd4–2 gene ablation is unknown. This study is the first to show that Nedd4–2-dependent changes in BP occur in part from Nedd4– 2 expressed in intercalated cells. Moreover, this study shows that Nedd4–2 gene ablation within intercalated cells stimulates electroneutral apical  $Cl^-/HCO_3^-$  exchange in mouse CCD, in part by upregulating pendrin.