

**Figure 1. Similar microscopic anatomy in wildtype *Fras1*<sup>+/+</sup>; *Spry1*<sup>+/+</sup> (A and B) and rescued *Fras1*<sup>bl/bl</sup>; *Spry1*<sup>LacZ/+</sup> E15 kidneys.**

**A and C.** E-cadherin immunohistochemistry, counterstained with periodic acid Schiff, demonstrates collecting ducts (strong brown color) with vesicles and S-shaped bodies showing less intense brown signal. Proximal tubules visible with red stained brush borders.

**B and D.** Pbx1 immunohistochemistry detects stroma (strong brown color) in wildtype control and rescued mutant organs. Key: S = S-shaped body; V = vesicle; PT = proximal tubule. Bars are 100  $\mu$ m.

