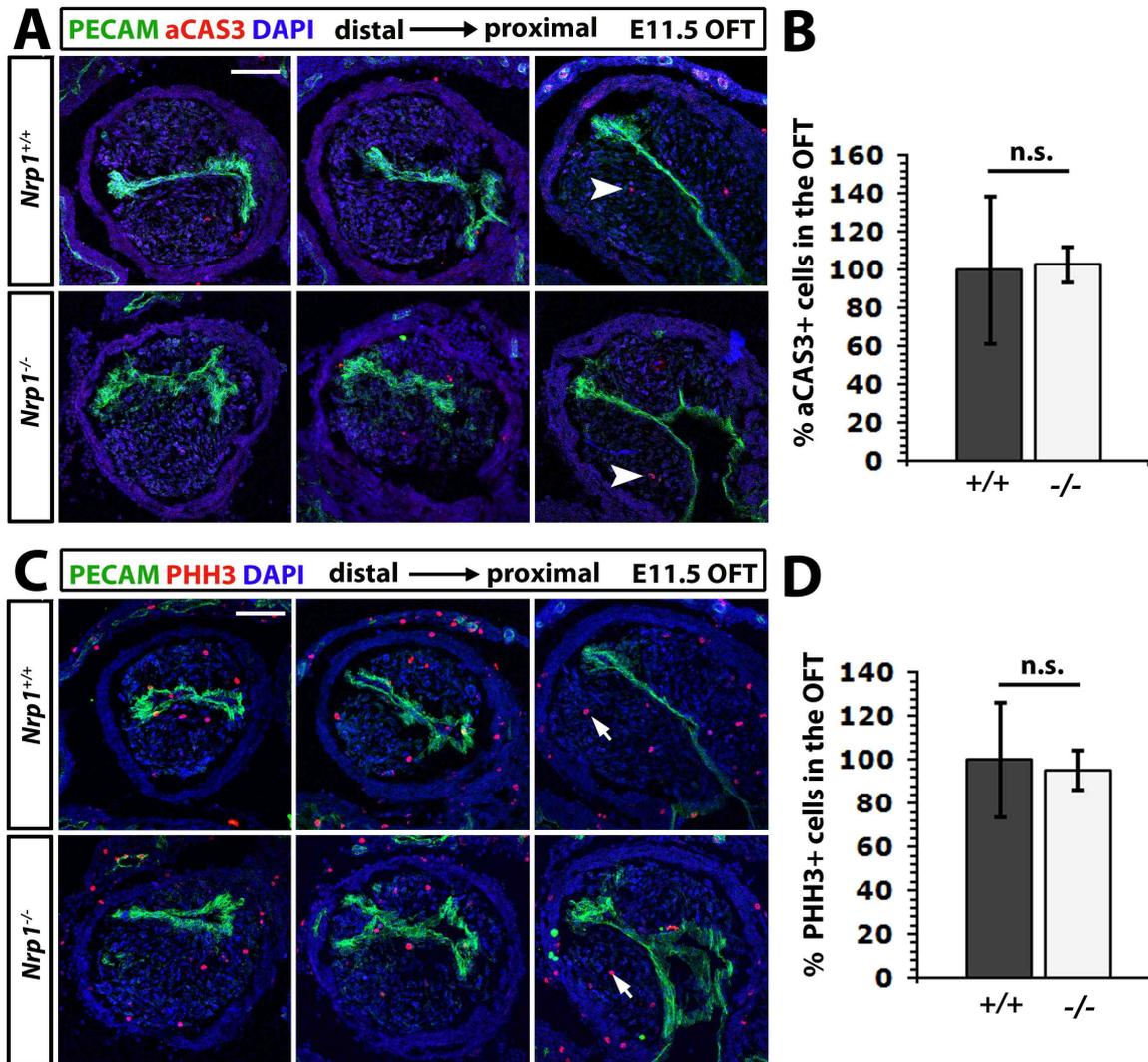
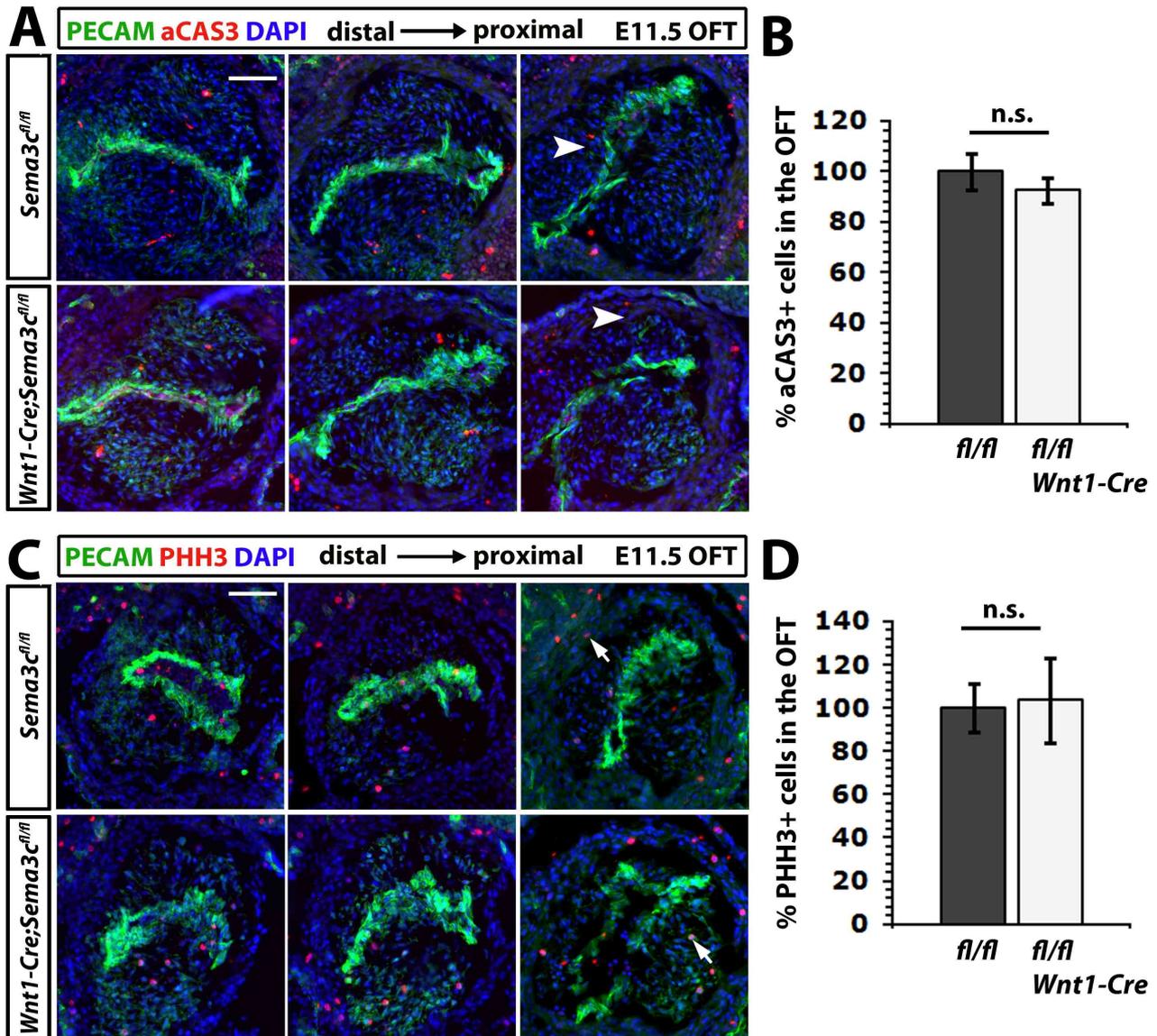


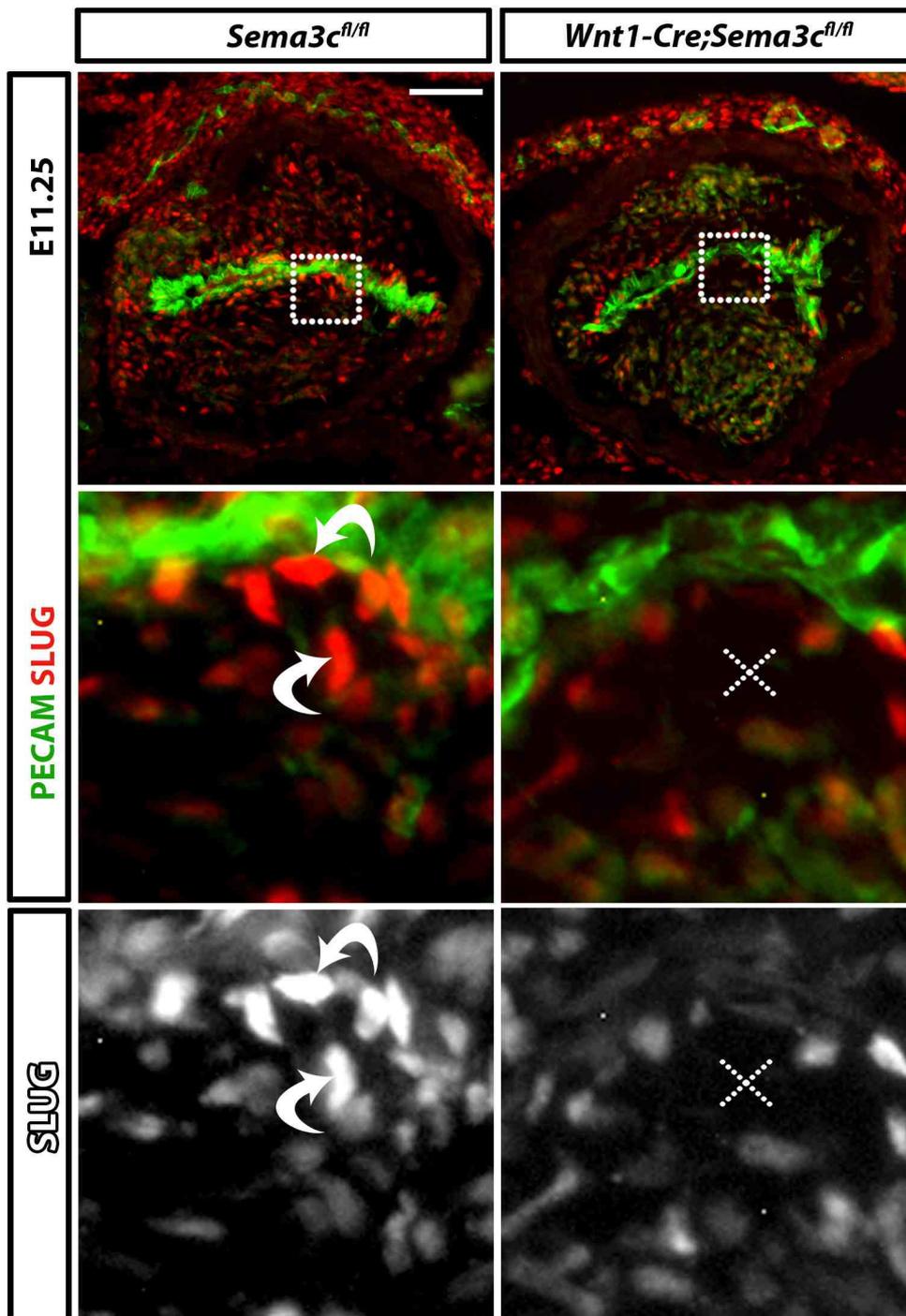
Supplemental Figures:

**Supplemental Figure 1. *NRP1* is not required for cell proliferation or survival in E11.5 OFTs.**

(A,C) Sections through E11.5 OFTs from *Nrp1*-nulls and wildtype littermates (n=3 each) were immunolabelled for PECAM, DAPI and aCAS3 or PHH3, respectively. Arrowheads indicate aCAS-positive and arrows PHH3-positive cells. (B,D) Quantitation of aCAS3- or pHH3-positive cells in the proximal OFT of *Nrp1*-null and control littermates (n=3 each; for each OFT, the most proximal 8 sections were counted to obtain the average number for that OFT and expressed as mean \pm SD; n.s., not significant with a 2-tailed, unpaired Student's t test. Scale bars: 100 μ m (A,C).



Supplemental Figure 2. *NCC-derived SEMA3C is not required for cell proliferation or survival in E11.5 OFTs.* (A,C) Sections through E11.5 OFTs of *Wnt1-Cre;Sema3c^{fl/fl}* and wildtype littermates were immunolabelled for PECAM, DAPI and aCAS3 or PHH3, respectively. Arrowheads indicate aCAS-positive and arrows PHH3-positive cells. (B,D) Quantitation of aCAS3- or pHH3-positive cells in the proximal OFT of *Wnt1-Cre;Sema3c^{fl/fl}* and control littermates (n=3 each; for each OFT, the most proximal 8 sections were counted to obtain the average number for that OFT and expressed as mean ± SD; n.s., not significant with a 2-tailed, unpaired Student's t test. Scale bars: 100 μm (A,C).



Supplemental Figure 3. Fewer *SLUG*-positive cells near the OFT endothelium in mice lacking *NCC*-derived *SEMA3C*. Immunolabelling of sections from E11.25 *Wnt1-Cre;Sema3c^{fl/fl}* and littermate control OFTs (n=3 each) for PECAM and SLUG. The boxed area is shown in higher magnification, with the single SLUG channel in grey scale. The curved arrows indicate examples of individual SLUG-expressing cells near control OFT endothelium, and the dotted cross an area with few SLUG-positive individual cells adjacent to OFT endothelium lacking *NCC*-derived *SEMA3C*. Scale bar: 100 μ m.

Supplemental Table 1:

Gene	Oligonucleotide sequence
<i>Nrp1</i> , <i>Nrp1^{fl}</i>	5'-CGTGATATTGCTGAAGAGCTTGGC-3'
	5'-CAATGACACTGACCAGGCTTATCATC-3'
	5'-GATTTTTATGGTCCCGCCACATTTGTC-3'
<i>Nrp1^{Sema}</i>	5'-AGGCCAATCAAAGTCCTGAAAGACAGTCCC-3'
	5'-AAACCCCTCAATTGATGTAAACACAGCCC-3'
<i>Nrp1^{Vegfa}</i>	5'-ATTGCTGGGATTACAGGCGTGAACC-3'
	5'-GTGTGCTGATCTGGGAAGGTAGGCAG-3'
	5'-GGAGACGGGAGCAACCAGAGTGC-3'
<i>Nrp2</i>	5'-CAGTGACAACGTCGAGCACAG-3'
	5'-TCAGGACACGAAGTGAGAAAGC-3'
	5'-GCTCAATGTAGCTAAGTGGAGGG-3'
<i>Tie2-Cre</i>	5'-CCCTGTGCTCAGACAGAAATGAGA-3'
	5'-GTGGCAGATGGCGCGCAACACCATT-3'
<i>Wnt1-Cre</i>	5'-TAAGAGGCCTATAAGAGGCGG-3'
	5'-GTGGCAGATGGCGCGCAACACCATT-3'
<i>Vegfa¹²⁰</i>	5'-CGCACGGGTGTTGGGTCGTTTGTTCGG-3'
	5'-CAGTCTATTGCCTCTGACCTTCAGGGTC-3'
	5'-TTCAGAGCGGAGAAAGCATTGTGTTGTCCA-3'
<i>Vegfa^{LacZ}</i>	5'-CTTGCGTCCACACCGTCACATTAAGTCAC-3'
	5'-ATGTGACAAGCCAAGGCGGTG-3'
	5'-TGGCGATTTAGCAGCAGATA-3'
<i>Vegfa^{fl}</i>	5'-GGTAGGGGTTTTTCACAGAC-3'
	5'-CCTGGCCCTCAAGTACACCTT-3'
	5'-TCCGTACGACGATTTCTAG-3'
<i>Sema3c^{fl}</i>	5'-GAATCTGGCAAAGGACGATG-3'
	5'-GACCACTGGGCTTGAGAGAG-3'
<i>Rosa^{Yfp/LacZ}</i>	5'-AAAGTCGCTCTGAGTTGTTAT-3'
	5'-GGAGCGGGAGAAATGGATATG-3'
	5'-GCGAAGAGTTTGTCTCAACC-3'