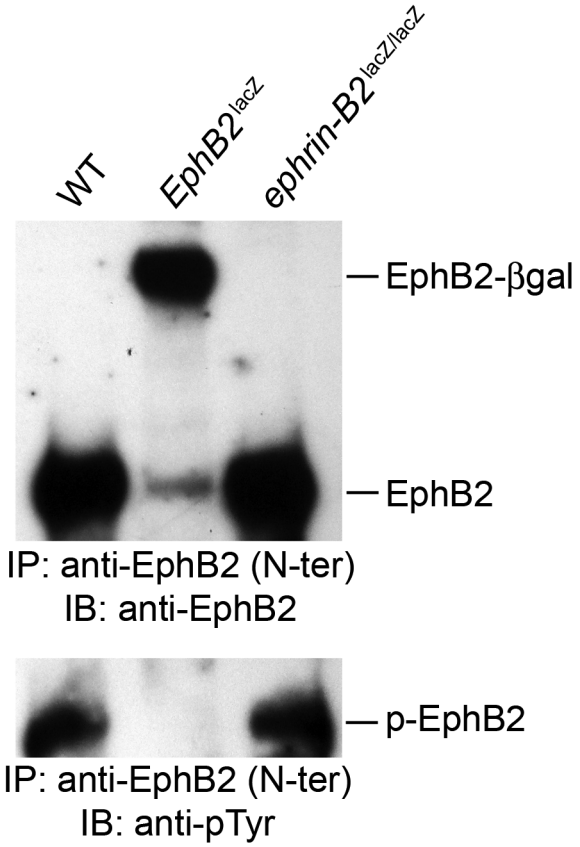
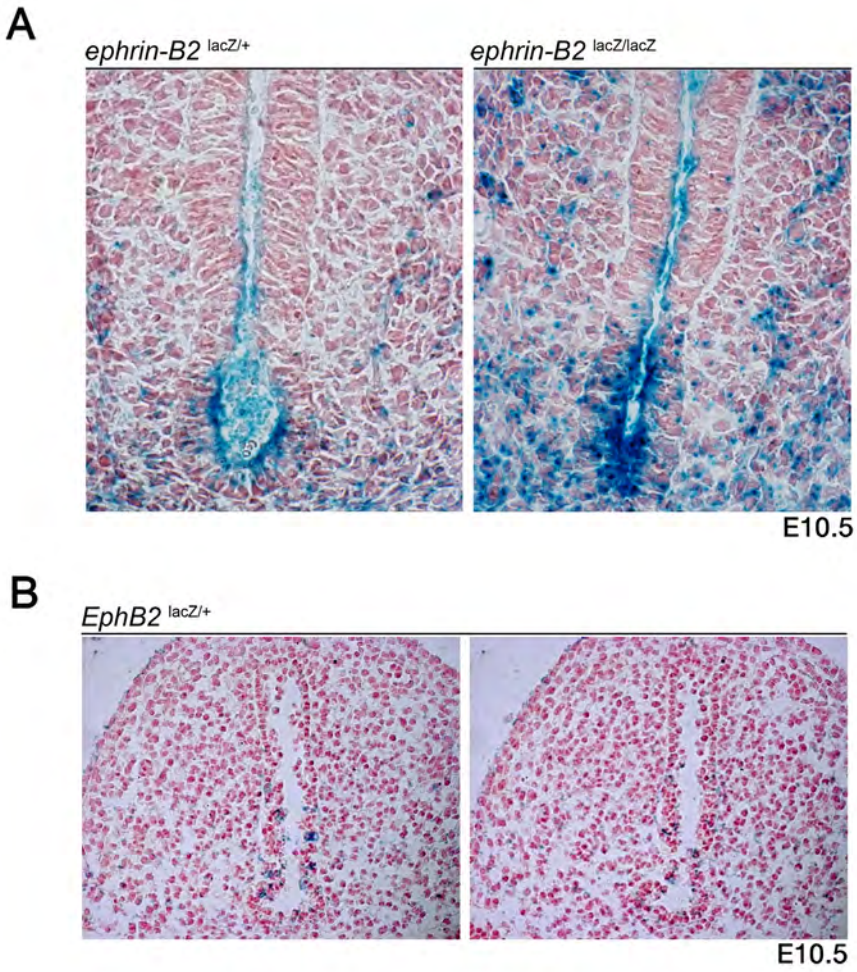
Supplemental Figure 1



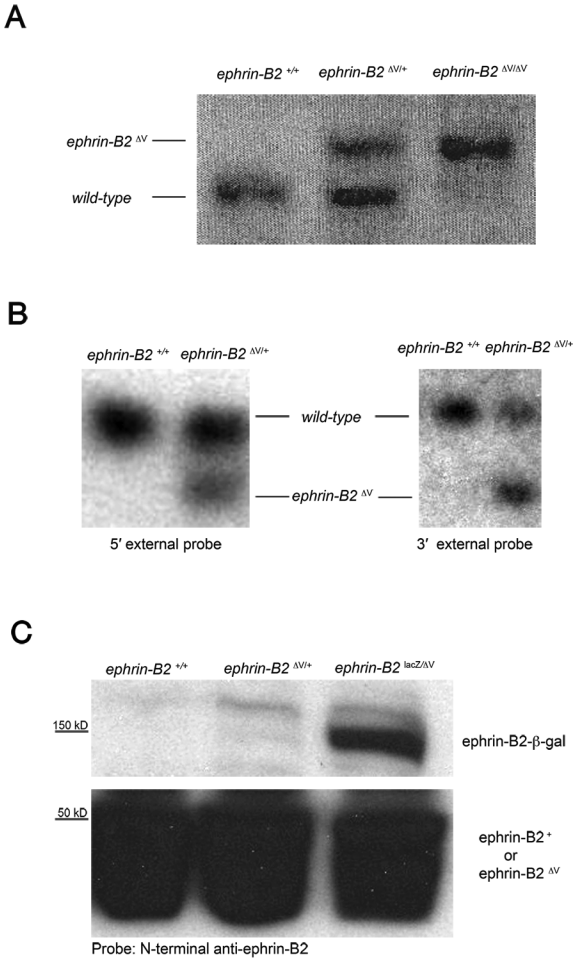
Supplemental Figure 1.
Whole cell protein lysates from the heads of WT, *EphB2*$^{lacZ/lacZ}$, and *ephrin-B2*$^{lacZ/lacZ}$ embryos collected at E13.5 were immunoprecipitated with an antibody directed against the N-terminal extracellular domain of EphB2 and then immunoblotted with the same antibody (top) and with an anti-phospho-tyrosine antibody (bottom). The data shows no obvious difference in tyrosine phosphorylation of EphB2 when the ephrin-B2-βgal fusion protein is expressed compared to ephrin-B2 protein in the WT. The *EphB2*$^{lacZ/lacZ}$ lane serves as the control with the faint band in the top blot indicating a small amount of cross reactivity of the anti-EphB2 (N-ter) antibody with other co-expressed EphB proteins.

Supplemental Figure 2



Supplemental Figure 2.
(A) Higher magnification images of pre-septation foregut stained with X-gal from *ephrin-B2* $^{lacZ/+}$ (left) and *ephrin-B2* $^{lacZ/lacZ}$ (right) E10.5 embryos.
(B) BluO-gal stain (blue) of E10.5 *EphB2* $^{lacZ/+}$ foregut before (left) and at septation (right).

Supplemental Figure 3



Supplemental Figure 3.
(A) PCR products from genomic DNA from WT, *ephrin-B2*$^{\Delta V/+}$, and *ephrin-B2*$^{\Delta V/\Delta V}$ tissue.
(B) Southern blot screen indicating positive targeting of the 5' and 3' homology arms
(C) Whole cell protein lysates from E12.5 WT, *ephrin-B2*$^{\Delta V/+}$, and *ephrin-B2*$^{lacZ/\Delta V}$ embryos immunoblotted with an antibody against ephrin-B2 indicate proper expression of the ephrin-B2-ΔV protein as determined by the presence of the 45 kD band in the ephrin-B2$^{lacZ/\Delta V}$ sample (lane 3).