



Supplemental Figure 2. Histomorphometric studies of *Ltbp3^{-/-}*, *Ltbp4S^{-/-}* and *Ltbp3^{-/-};Ltbp4S^{-/-}* lungs in newborn mice. Histomorphometric studies showed no difference between WT and *Ltbp3^{-/-}* lungs at P0.5, as measured by average terminal air-sac diameter. There was an increase of about 60% in average air sac diameter in *Ltbp4S^{-/-}* and *Ltbp3^{-/-};Ltbp4S^{-/-}* compared to WT ($P \leq 0.005$, $P \leq 0.005$) and *Ltbp3^{-/-}* ($P \leq 0.0007$, $P \leq 0.0016$) newborn mice. However, there was no difference between *Ltbp4S^{-/-}* and *Ltbp3^{-/-};Ltbp4S^{-/-}* lungs ($P \leq 0.863$). Four animals of each genotype were analyzed in this study. Bars: 50 µm.