



**Figure 19: Vertebral bone marrow microvessels express ephrinB2.** Upper row: white light overview of the stained vertebral body cryo sections. Second row: corresponding overview of fluorescence immunohistochemistry. Last row: detailed magnification of the selected area (white square). CD31 / desmin showed no desmin positive pericytes in the bone marrow. Co-staining of CD31 and ephrinB2 showed strong ephrinB2 expression in bone marrow (green cells) and double positive vessels (yellow indicated by the arrowheads). EphB4 stained weak in vertebral bone marrow (n=3, scale bar = 100  $\mu$ m)

Endothelial cell specific knockdown of ephrinB2 was evaluated using lung tissue [71]. *Efnb2* mRNA reduction by  $1.12 \times 10^{-5} \pm 1.53 \times 10^{-5}$  was found in lung tissue of *i $\Delta$ efnb2* animals compared to *CDH5-CreERT<sup>2</sup>* negative controls (*efnb2<sup>lox/lox</sup>*). Western blot of lung tissue showed a strong reduction of ephrinB2 in *i $\Delta$ efnb2* mice compared to *CDH5-CreERT<sup>2</sup>* negative controls. *Beta actin* served as protein loading control (Figure 20).