

SUPPLEMENTARY FIGURE LEGENDS

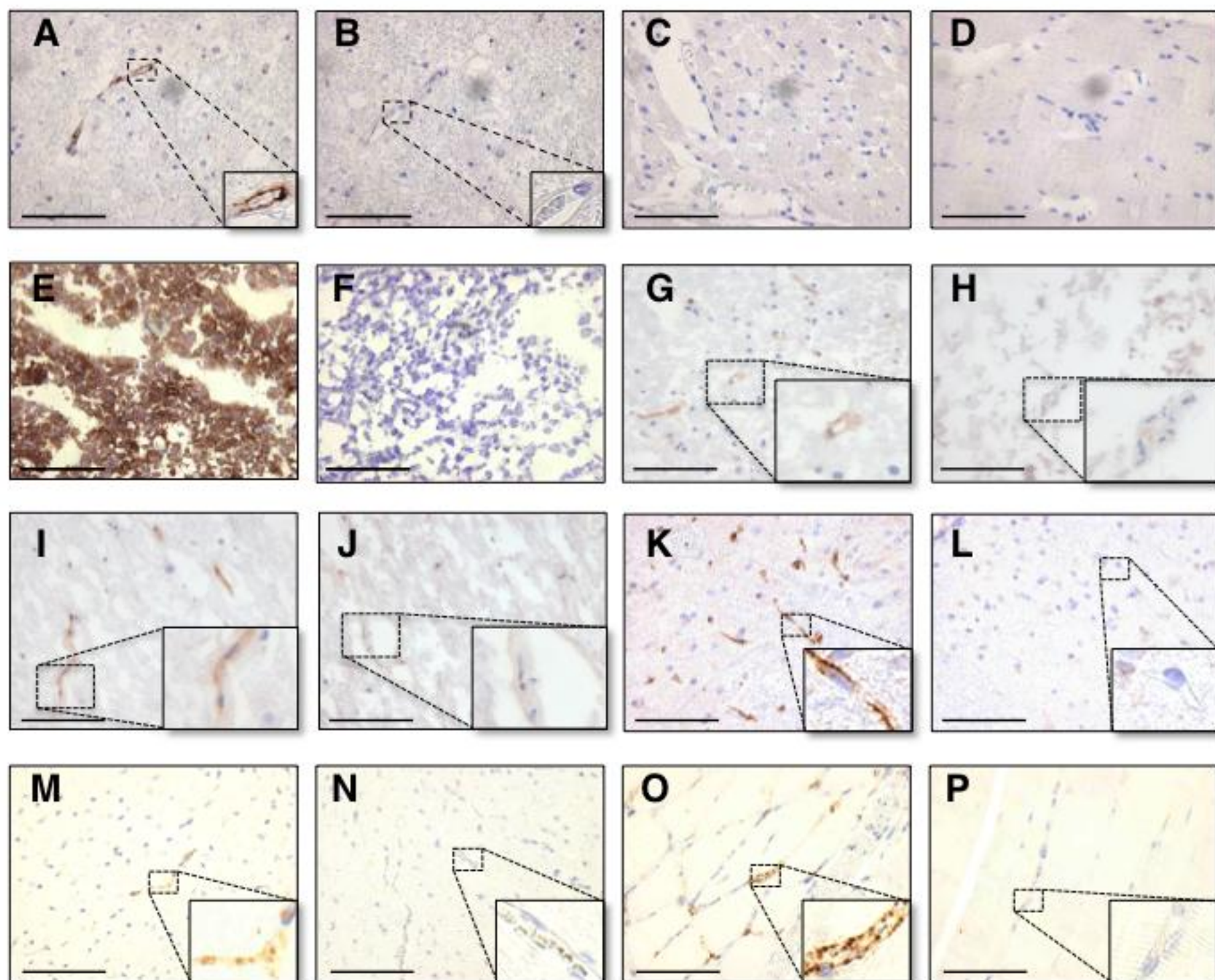
Supplementary FIG. 1. Microvascular human CRTh2 protein expression in human and hCRTh2.BAC.Tg mouse spinal cord, heart, and skeletal muscle. FFPE human spinal cord (A-B), heart (C), and skeletal muscle (D) were stained with anti-CRTh2 mAb 81.12.4 (A and C) or an isotype control IgG (B) by immunohistochemistry using tyramide signal amplification. In parallel experiments, immunohistochemistry without tyramide signal amplification was optimized using anti-CRTh2 antibody m8B1 and validated on frozen HEK 293 cells stably transfected (E) or not (F) with human CRTh2, then applied to frozen human brain (G) and spinal cord (I), with serial sections stained with a corresponding isotype control IgG (H and J, respectively). FFPE spinal cord (K and L), heart (M and N), and skeletal muscle (O and P) from hCRTh2.BAC.Tg mice (K, M, and O) or the wild-type littermate controls (L, N, and P) were stained with anti-CRTh2 mAb 81.12.4 by immunohistochemistry using tyramide signal amplification. All images are representative of at least three tissue specimens from at least 3 different individuals. Brain regions sampled include cerebrum and cerebellum. Scale bars, 100 μ m.

Supplementary FIG. 2. Multiplex immunofluorescence confocal microscopy isotype controls in human CNS and stomach. Representative dual merged channel images of FFPE human CNS microvasculature stained in the green channel with anti-CRTh2 antibody 81.12.4 combined with a red-channel isotype control matched to either anti-CD31 (A) or anti-PDGFR β (C) or stained in the red channel with either anti-CD31 (endothelial cell marker) (B) or anti-PDGFR β

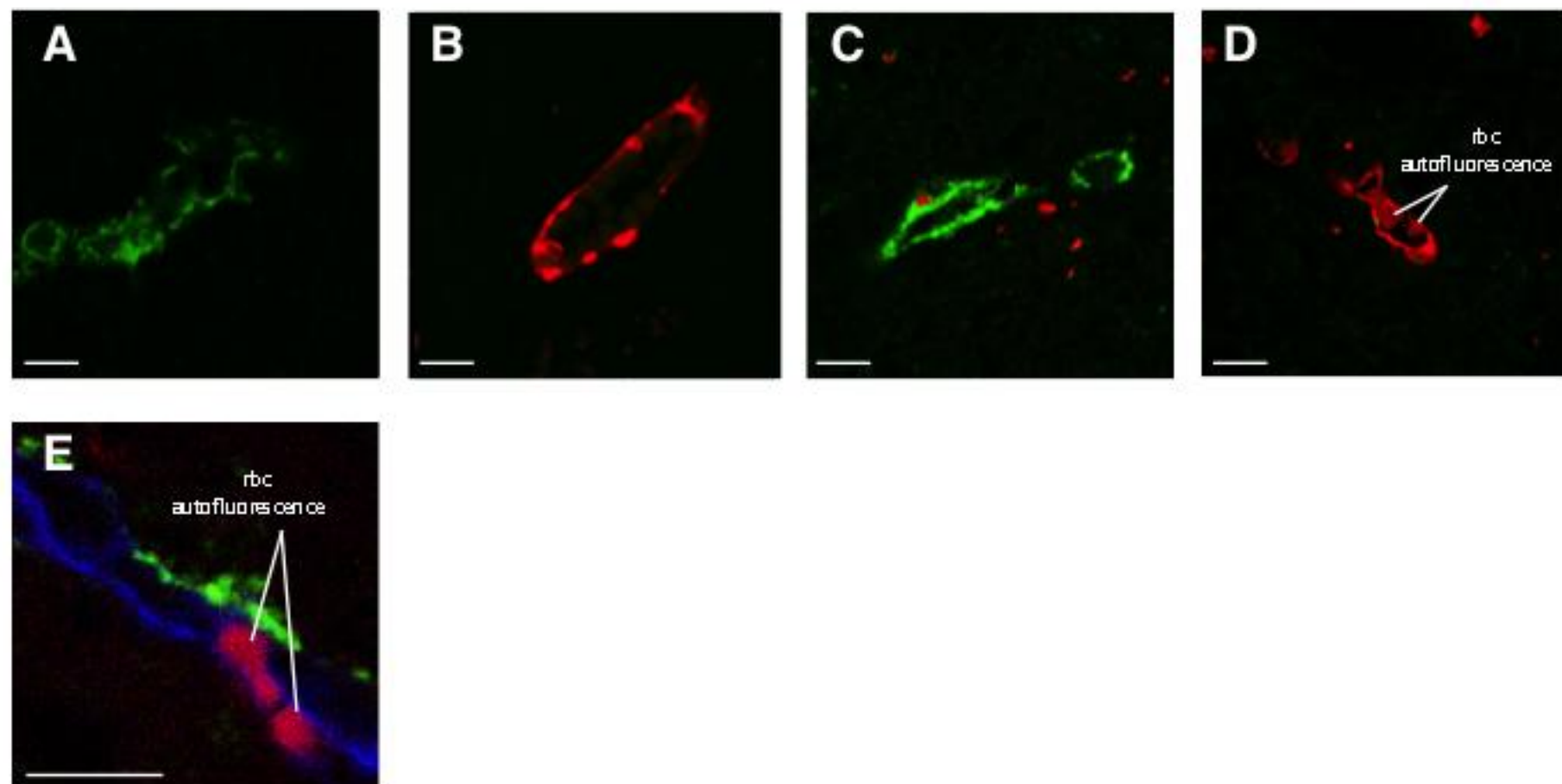
(pericyte marker) (D) each combined with a green channel anti-CRTh2-matched isotype control. E) Representative 3-color merged channel image of FFPE human stomach lamina propria microvasculature stained in the green channel with an anti-CRTh2-matched isotype control, the red channel with an anti-collagen IV-matched isotype control, and the far red channel with anti-PLVAP (false-colored blue; endothelial cell marker). CNS regions sampled include spinal cord (shown), cerebrum, and cerebellum. Scale bars, 20 [μ]m.

Supplementary FIG. 3. Robust expression of IL4Ra and IL13R on primary human CNS pericytes but not endothelial cells. Primary human CNS pericytes (A) or endothelial cells (B) were evaluated for IL4Ra (upper panels) and IL13R (lower panels) surface expression by flow cytometry. Plots in (A) are of 5 unique donors tested (PC12-16) and those in (B) of 6 unique donors tested (EC1-5 and EC21-23). Red histograms represent anti-IL4Ra (upper panel) or anti-IL13R (lower panel) signal and black histograms isotype control profiles.

Supp FIG. 1.



Supp FIG. 2.



Supp FIG. 3.

