Supplementary Material

# Supplementary DataA diagram of a graph Description automatically generated with medium confidence

**Supplemental Figure 1.** Flow cytometry gating strategy defining cell populations from adipose tissues from Pdgfra-Cre-LSL-tdTomato mice. The gating strategy flow: A) Inclusion of cells without debris, and B) singlets events. C) Exclusion of dead cell with fixable viability dye, and D) CD45+, E) CD31+ cells. Finally, APC were identified as F) inclusion of tdTomato+.

A black background with white text and blue dots

Description automatically generated

**Supplemental Figure 2.** Representative images of immunofluorescence negative primary antibody controls in A) thoracic (ATPVAT), B) abdominal (ABPVAT), and C) mesenteric (MESPVAT) sections. A cocktail of secondary antibodies was only included with nuclear stain DAPI blue. (A= aorta/arteries, P= PVAT). Scale bar: 200µm.

A collage of images of different colors

Description automatically generated

**Supplemental Figure 3.** 4-plex immunohistochemistry of BMPER in the yellow arrow, while PPARγ in green arrows of A) thoracic PVAT (ATPVAT), B) abdominal PVAT (ABPVAT), and C) mesenteric arteries (MESPVAT). Signals of PI16 in red arrows, while GDF10 in cyan are depicted for D) ATPVAT, E) ABPVAT, and F MESPVAT. (P: PVAT, A: Adventitia). Scale bar: 200µm.