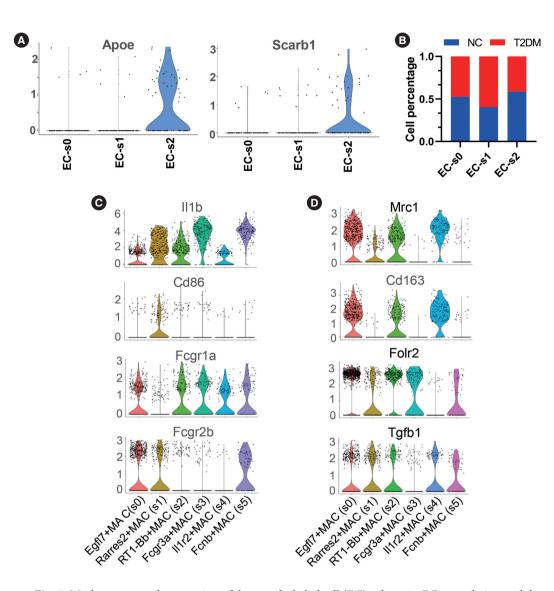**Supplementary Fig. 5.** Marker genes and proportion of three endothelial cell (EC) subsets in ECs population and the marker gene expression in different macrophage (MAC) subsets. (A) Violin plots of the relative expression levels of apoprotein E (*Apoe*) and scavenger receptor class B member 1 (*Scarb1*) in various subsets of ECs. (B) Proportion of each EC subset in the total ECs of brown adipose tissue in normal rats (NC) and type 2 diabetes mellitus (T2DM) rats. (C, D) Violin plots of relative expression levels of classical marker genes of M1 (C) and M2 (D) MACs in each MAC subcluster identified by single-cell RNA sequencing. Il1b, interleukin 1 beta; Fcgr1a, Fc gamma receptor Ia; Fcgr2b, Fc gamma receptor IIb; Egfl7, EGF like domain multiple 7; Rarres2, retinoic acid receptor responder 2; RT1-Bb, RT1 class II, locus Bb; Fcgr3a, Fc gamma receptor IIIa; Il1r2, interleukin 1 receptor type 2; Fcnb, ficolin B; Mrc1, mannose receptor, C type 1; Folr2, folate receptor beta; Tgfb1, transforming growth factor-β1.