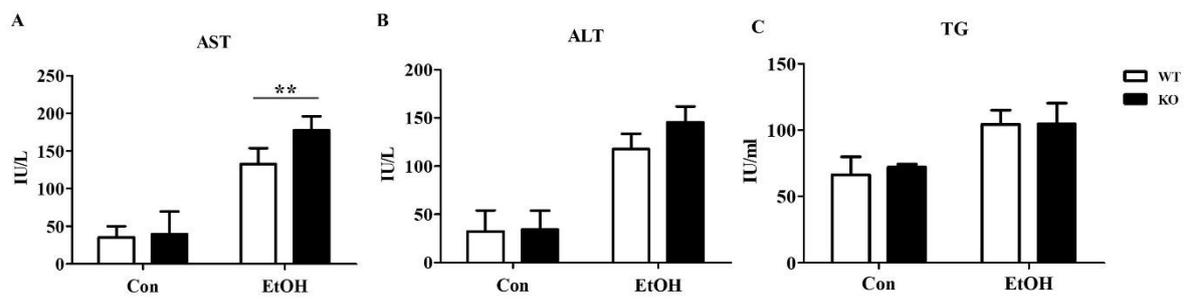
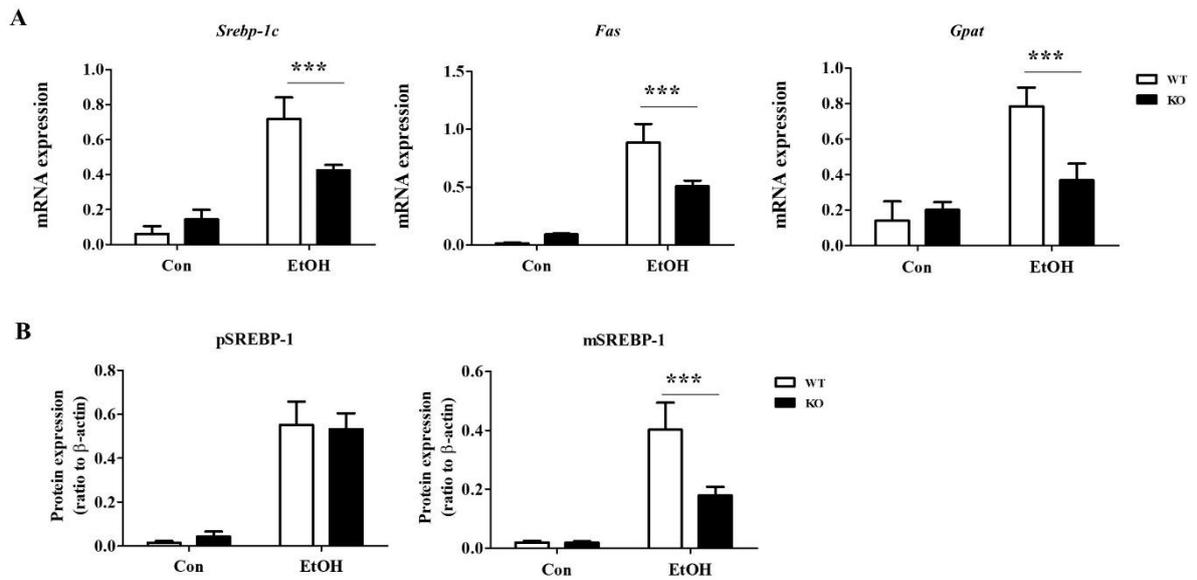


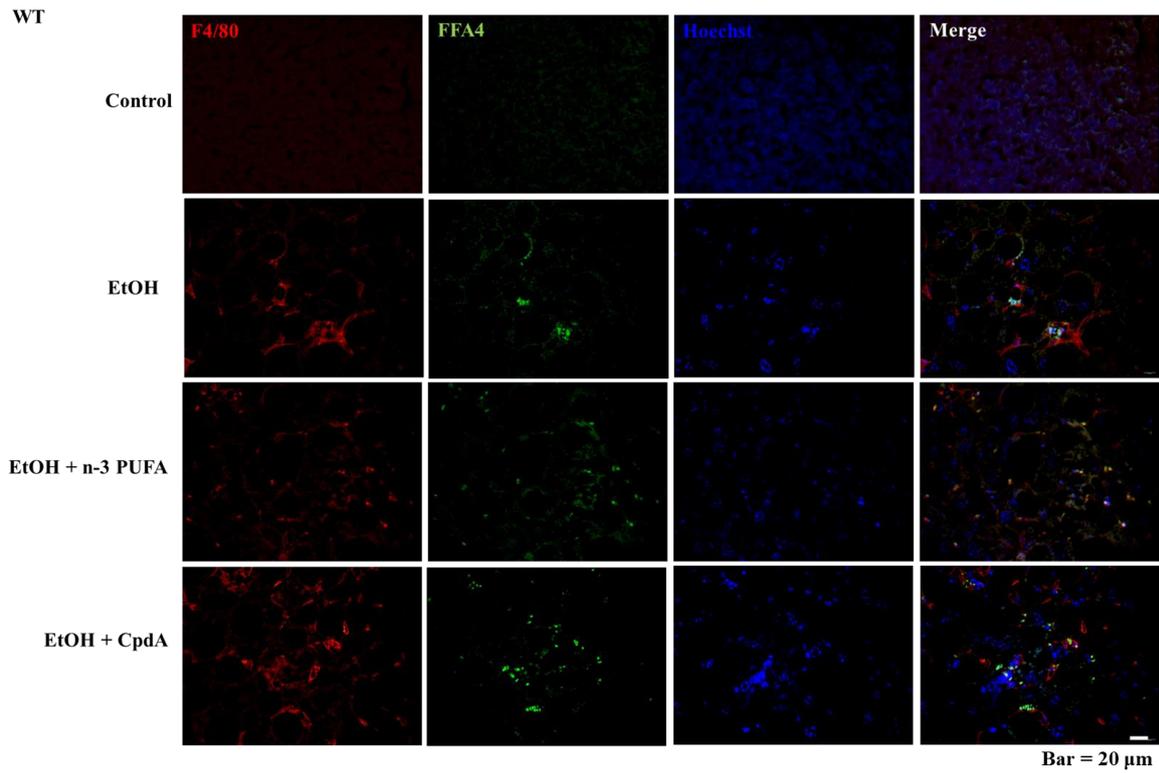
**Figure S2.** Fluorescence confocal microscopy of Kupffer cells. Isolated Kupffer cells were labeled with antibodies against FFA4 (NBPI-00858, 1:500, Novus Biologicals, LLC, CO, USA), and F4/80 (ab6640, 1:100, abcam, Cambridge, MA, USA). The secondary antibody used was Alexa Fluor 488-conjugated anti-rabbit IgG (1:8000, Jackson ImmunoResearch, West Grove, PA, USA) and Cy<sup>TM</sup>-3-conjugated anti-rat IgG (1:8000, Jackson ImmunoResearch, West Grove, PA, USA). A confocal scanning module (LSMS10, Carl Zeiss, Germany) mounted on a fluorescence microscope (AXIOVERT 100 M, Carl Zeiss, Germany) using a C-Apochromat 40x/1.2 W (Carl Zeiss, Germany) was used (Kim JM et al., 2015)



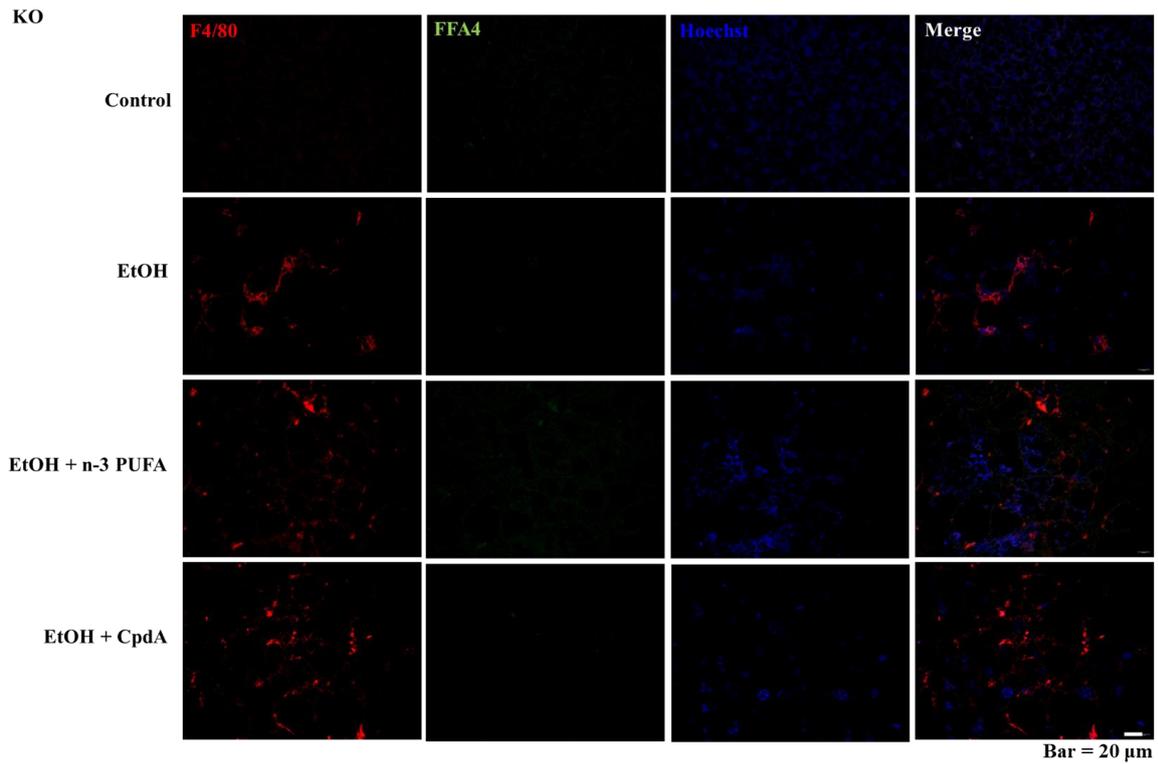
**Figure S3.** Comparison of AST, ALT, and TG levels between WT and KO mice. The serum levels of AST, ALT, and TG from WT and KO mice without treatment or with treatment of EtOH were compared. (A) AST. (B) ALT. (C) TG levels. Data are presented as the mean  $\pm$  standard error (SE) for 6 mice per experimental group. Statistical significance: \*\*  $p < 0.01$  vs. WT



**Figure S4.** Comparison of mRNA expression levels of *Srebp-1c*, *Fas*, and *Gpat* and protein levels of pSrebp-1c and mSrebp-1c between WT and KO mice. (A) The expression levels of *Srebp-1c*, *Fas*, and *Gpat* mRNAs between WT and KO mice without treatment or with treatment of EtOH were compared. (B) The expression levels of preform and mature forms of Srebp-1c between WT and KO mice without treatment or with treatment of EtOH were compared. Data are presented as the mean  $\pm$  standard error (SE) for 6 mice per experimental group. Statistical significance: \*\*\*  $p < 0.001$  vs. WT mice



**Figure S5.** Immunohistochemistry of F4/80 and Ffa4 in liver tissue section of WT mice. (Red color) Macrophages were stained with F4/80 antibody (ab6640, 1:100, abcam, Cambridge, MA, USA). (Green color) Ffa4 was identified with a specific antibody (NBP1-00858, 1:500, Novus Biologicals, LLC, CO, USA). (Blue color) Hoechst staining shows nuclei.



**Figure S6.** Immunohistochemistry of F4/80 and Ffa4 in liver tissue section of KO mice. (Red color) Macrophages were stained with F4/80 antibody (ab6640, 1:100, abcam, Cambridge, MA, USA). (Green color) Ffa4 was identified with a specific antibody (NBP1-00858, 1:500, Novus Biologicals, LLC, CO, USA). (Blue color) Hoechst staining shows nuclei.