Supplementary Figure 1. Knockout of macrophage Atg16l1 expression suppresses the development of experimental steatohepatitis. (A) Representative H&E staining and oil red O staining of liver tissues from mice fed an HFHCD. (B) Serum ALT and AST levels in mice fed an HFHCD; n=6/group. (C) Representative H&E staining and oil red O staining of liver tissues from mice fed an MCD. (D) Serum ALT and AST levels in mice fed an MCD; n=6/group. (E) The protein expression levels of ATG16L1 in liver tissues, hepatocytes and BMDMs from Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} mice. (F) The expression of the proinflammatory genes Tnfa, Il6, and Il1b in liver tissues from Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} MASH mice fed an HFHCD or MCD. (G) Immunohistochemistry results of F4/80{sup}+{sup} cells in liver tissues from MASH mice fed an HFHCD or MCD. (H) The gene expression levels of Acta2, Col1a1 and Timp1 in liver tissues from Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} mice fed an HFHCD or MCD; n=6 mice/group. (I) The protein expression levels of α-SMA, collagen-I, and TIMP-1 in liver tissues from Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} mice fed an HFHCD or MCD. (J–L) Representative photographs of the Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} mice fed an HFHCD; tissue weights, tissue weight/body weight and representative photographs of liver tissues, BAT, eWAT, and ingWAT. (M) Representative H&E staining and F4/80 immunohistochemistry images of the eWAT of the Atg16l1^{fl/fl} and Atg16l1^{ΔMϕ} mice fed an HFHCD. Atg16l1, autophagy-related protein 16-like 1; HFHCD, high-fat and high-cholesterol diet; ALT, alanine aminotransferase; AST, aspartate aminotransferase; MCD, methionine- and choline-deficient diet; BMDMs, bone marrow-derived macrophages; MASH, metabolic dysfunction-associated steatohepatitis; BAT, brown adipose tissue; eWAT, epididymal white adipose tissue; ingWAT, inguinal white adipose tissue. The data are expressed as the mean±SD. *P<0.05 (unpaired t test or ANOVA). **P<0.01.
Supplementary Figure 1. Continued.