SUPPLEMENTARY FIGURES

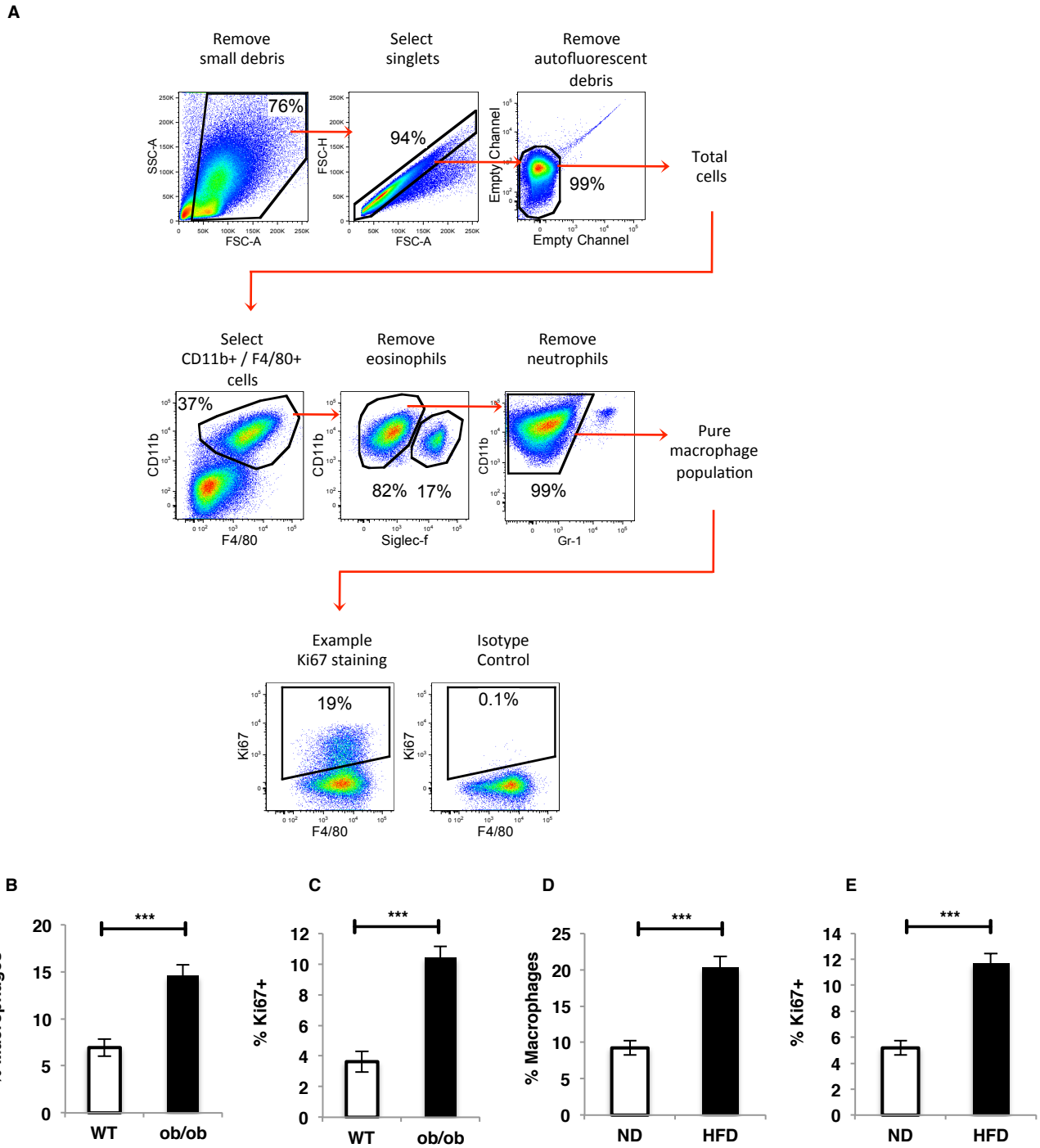

Figure S1, related to Figure 1. (A) Flow cytometry gating scheme for identifying macrophages in adipose tissue SVF. (**B**) Percentage of macrophages in SVF from SAT of WT and *ob/ob* mice. (**C**) Percentage of macrophages expressing Ki67 in SAT of WT and *ob/ob* mice. n=10. **(D)** Percentage of macrophages in SVF from SAT of mice fed a ND or a HFD for 10 weeks. (**E**) Percentage of macrophages expressing Ki67 in SAT of mice fed a ND or a HFD. n=18. . All graphs are expressed as mean ± s.e.m. Statistical significance was determined by Student's t-test. ***p<0.001.

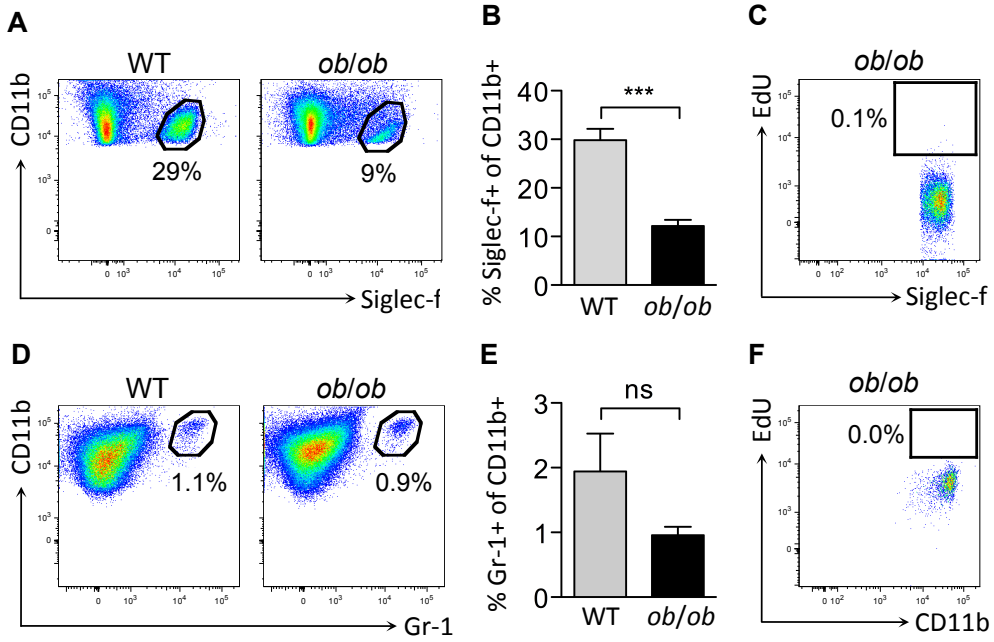

Figure S2, related to Figure 2. Effect of obesity on proliferation of diverse immune cell types in adipose tissue. (**A**) Representative dot plots of CD11b+ SVF cells stained for the eosinophil marker Siglec-f. (**B**) Percentages of CD11b+ cells that are eosinophils in WT and *ob*/*ob* mice. n= 48-51 mice/group from 10 independent experiments. (**C**) Representative dot plot of SVF eosinophils 3 hours after EdU injection. (**D**) Representative dot plots of CD11b+ SVF cells stained with the neutrophil marker Gr-1. (**E**) Percentages of CD11b+ cells that are neutrophils. n= 14-15 mice/group from 3 independent experiments. (**F**) Representative dot plot of SVF neutrophils 3 hours after EdU injection. All graphs are expressed as mean ± s.e.m. Statistical significance was determined by Student's t-test. ns = not significant. ***p<0.001.

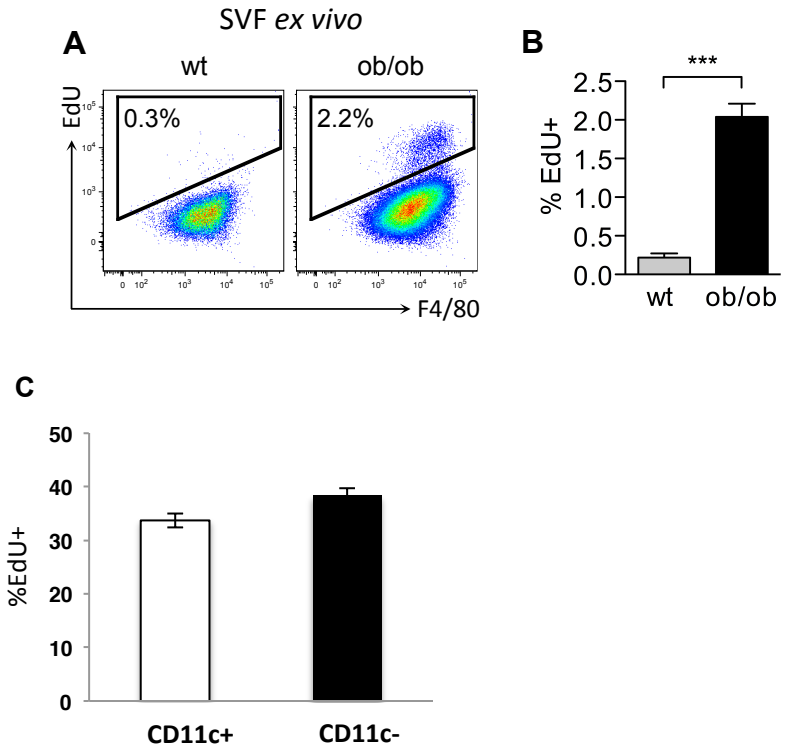

Figure S3, related to Figure 3. (**A**) SVF was isolated and treated with EdU. Representative dot plots of *ex vivo* macrophage EdU incorporation and (**B**) corresponding rates.(**C**) Percentage of pro- (CD11c+) and anti- (CD11c-) inflammatory macrophages that incorporated EdU (EdU+) or not (EdU-) during a 80-hour EdU exposure in VAT of *ob/ob* mice**.** n=9-10 mice/group. All graphs are expressed as mean ± s.e.m. Statistical significance was determined by Student's t-test. ns = not significant. ***p<0.001.

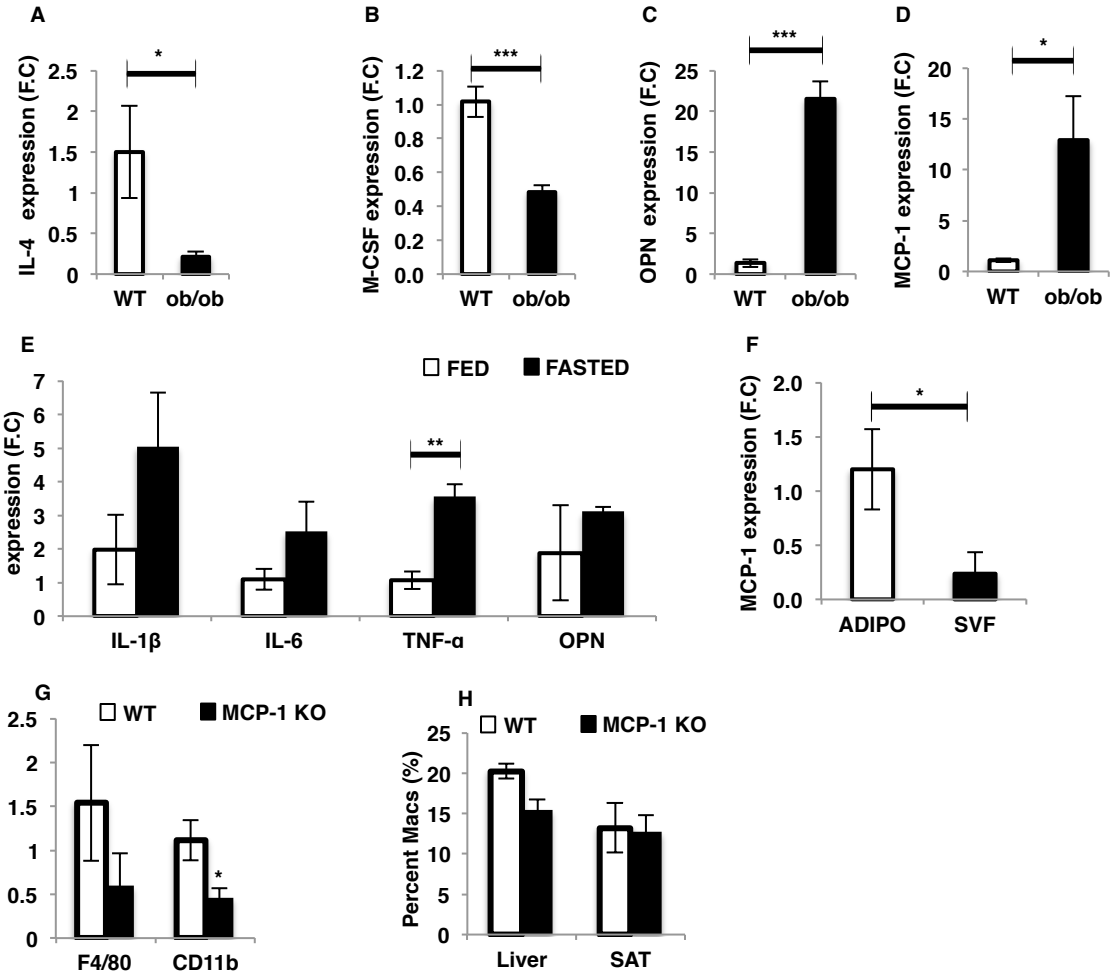

Figure S4, related to Figure 4. VAT was isolated from WT and *ob/ob* (**A**) IL-4, (**B**) M-CSF, (**C**) OPN and (**D**) MCP-1 expression was measured by RT-PCR. n=5. (**E**) Expression of interleukin 1 (IL-1β), interleukin 6 (IL-6), tumor necrosis factor(TNF-α) and osteopontin in epididymal AT of HFD fed mice fasted for 24 hours. (**F**) Expression of MCP-1 in adipocytes and SVF from epididymal AT of HFD fed mice. (**G**) F4/80 and CD11b expression in VAT of WT and MCP-1 KO fed a HFD for 6 weeks. n=5. (**H**) Percentage of macrophages in Liver and SAT of WT and MCP-1 KO fed a HFD for 6 weeks. n=5. Statistical significance was determined by Student's t-test. ns = not significant. ***p<0.001; **p<0.01; *p<0.05.

Supplementary Experimental Procedures

Antibodies used for flow cytometry on murine cells: F4/80-APC (clone Cl:A3-1, AbD Serotec), CD11b-PerCP-Cy5.5 (clone M1/70), Gr-1-APC-Cy7 (clone RB6-8C5), Siglec-f-PE (clone E50-2440), Ly6C-PE-Cy7 (clone AL-21), Ki67-FITC (clone B56) and IgG1κ-FITC (clone MOPC-21, BD Pharmingen), and CD11c-V450 (clone HL-3, BD Horizon).

Antibodies used for flow cytometry on human cells: CD14-FITC, CD11c-APC, CD11b-PE and CD45-PerCP; BD Bioscience