



Supplementary information, Figure S1. LKB1 deficiency does not affect the development of DCs, T cells or B cells. **a**, Real-time PCR and immunoblot analyses of *Stk11* mRNA and LKB1 protein expression in splenic DCs (CD11c⁺MHC-II⁺TCR β -CD19-CD49b⁻) from WT and *LKB1*^{ΔDC} mice. **b**, Real-time PCR analysis of *Stk11* mRNA expression in splenic CD11b⁺F4/80⁺ macrophages from WT and *LKB1*^{ΔDC} mice. **c**, Flow cytometry analysis of splenic conventional DC (cDC), CD8 α ⁺ cDC (CD8 α ⁺CD11b⁻), CD8 α ⁻ cDC (CD8 α ⁻CD11b⁺) and pDC populations in WT and *LKB1*^{ΔDC} mice. **d**, Statistics of frequencies and cell numbers of splenic DC populations in WT and *LKB1*^{ΔDC} mice. **e**, Flow cytometry analysis of CD4⁺ and CD8⁺ T cell populations in the spleen, PLN, MLN and thymus, and B cells in the spleen of WT and *LKB1*^{ΔDC} mice. **f**, Tumor growth curve in WT and *LKB1*^{ΔDC} mice following inoculation of B16-OVA tumor cells (WT, *n* = 9; *LKB1*^{ΔDC} mice, *n* = 7). **g**, Statistics of frequencies of IFN γ -producing CD4⁺ and CD8⁺ T cells in tumor tissues of WT and *LKB1*^{ΔDC} mice after inoculation of MC38 tumor cells for 13-14 days. Data in plots indicate the means \pm s.e.m; each symbol represents an individual mouse. Numbers in gates indicate percentage of cells. NS, not significant; *****P* < 0.0001; *****P* < 0.0001; two-tailed Mann-Whitney test (d, frequency; g), two-tailed unpaired Student's *t* test (d, cell number) or two-way ANOVA (f). Data are from at least three (a-e, g) independent experiments.