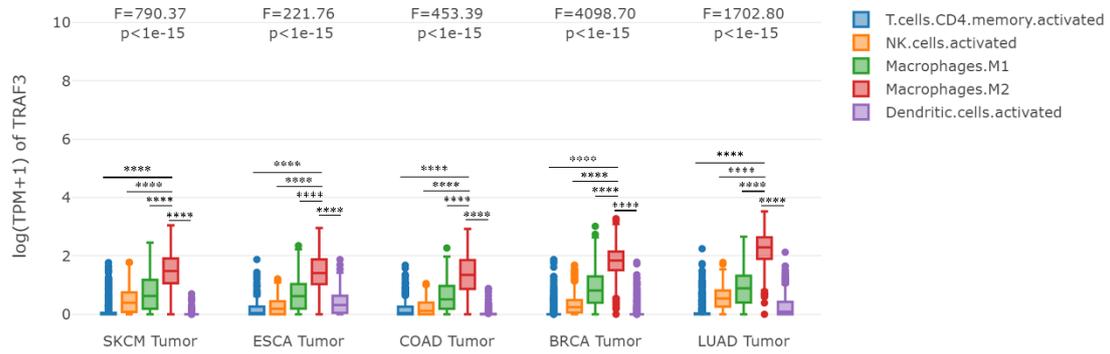
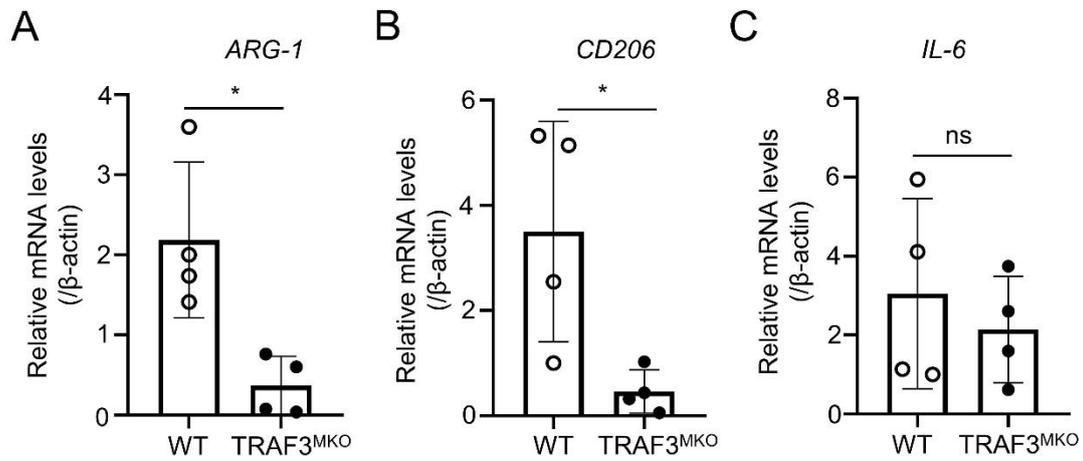


Figure S1



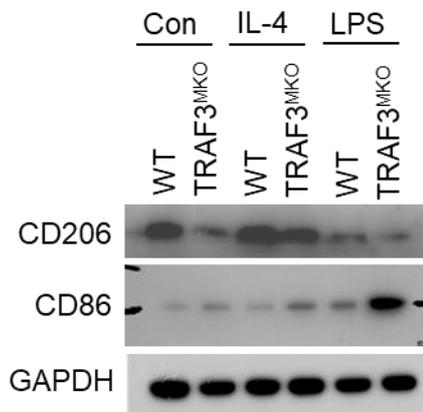
Supplementary Figure S1. Cell type-level expression analysis of TRAF3 in tumor tissues. Cell type expression levels of TRAF3 were analyzed using GEPIA2021 (<http://gepia2021.cancer-pku.cn/>) in the sub-datasets (indicated cancer types from TCGA). All the data are from TCGA (version 2016-09-01) expression database. The sample numbers of SKCM Tumor, ESCA Tumor, COAD Tumor, BRCA Tumor and LUAD Tumor datasets were 469, 182, 290, 1099 and 515, respectively. SKCM, Skin Cutaneous Melanoma; ESCA, Esophageal carcinoma; COAD, Colon adenocarcinoma; BRCA, Breast invasive carcinoma; LUAD, Lung adenocarcinoma. **** $p < 0.0001$, compared with Macrophages M2 group.

Figure S2



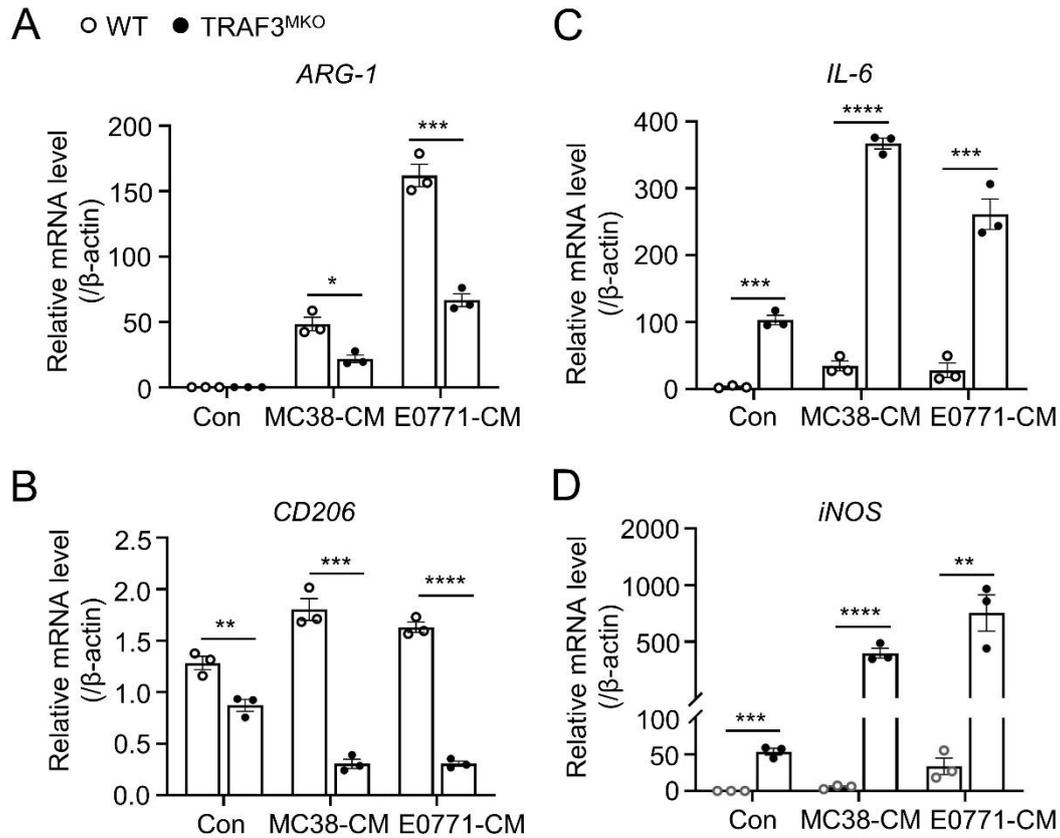
Supplementary Figure S2. Macrophage polarization marker gene expression in TRAF3-deficient peripheral blood mononuclear cells (PBMCs). PBMCs were obtained from WT and TRAF3^{MKO} mice. Total RNA was extracted and qRT-PCR analysis of ARG-1, CD206 and IL-6 were performed. Bar graphs with error bars are represented as mean ± SD. * $p < 0.05$.

Figure S3



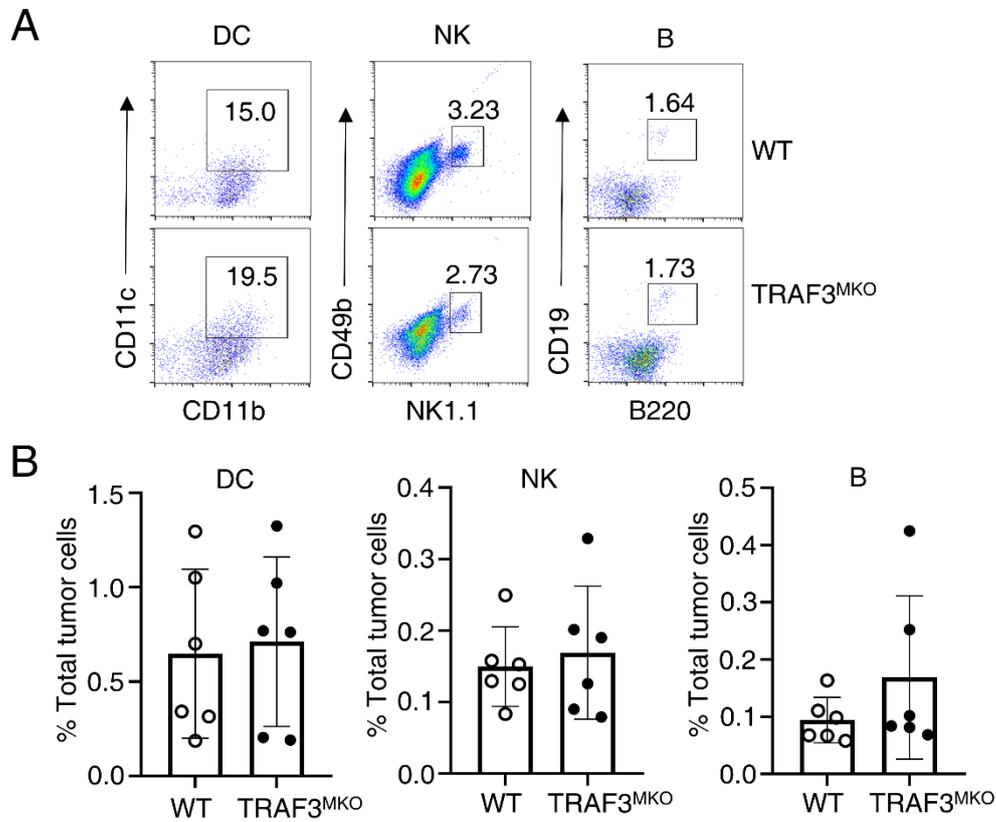
Supplementary Figure S3. CD206 and CD86 expression in IL-4 and LPS induced WT and TRAF3^{MKO} BMDMs. BMDMs from WT and TRAF3^{MKO} mice were treated with IL-4 (10 ng/mL) or LPS (1 μ g/mL) for 48 h. Total cell lysates was extracted and CD206 and CD86 protein levels were detected by immunoblotting.

Figure S4



Supplementary Figure S4. TRAF3 deficiency suppressed tumor induced M2 TAM polarization. A-D, BMDMs were co-cultured with MC38 or E0771 conditional media (MC38-CM, E0771-CM) for 48 h. Total RNA was extracted and qRT-PCR analysis of ARG-1 (A), CD206 (B), IL-6 (C) and iNOS (D) was performed. Bar graphs with error bars are represented as mean \pm SD. Each panel is a representative experiment of at least three independent biological replicates. ** $p < 0.01$, *** $p < 0.001$, **** $p < 0.0001$.

Figure S5



Supplementary Figure S5. TRAF3 regulates immune cell infiltration in B16 tumor model. Flow cytometric analysis of immune cells (CD45+) infiltrated to day 21 tumor tissues. A, Frequency of tumor infiltrated DCs (CD3-CD11b+CD11c+), NK cells (CD3-NK1.1+CD49b+) and B cells (CD3-CD19+B220+). B, Summary of flow cytometry data of (A) based on multiple mice, showing the frequency of the indicated cell populations within total tumor cells. Data are represented as mean \pm SD. Each panel is a representative experiment of at least three independent biological replicates.