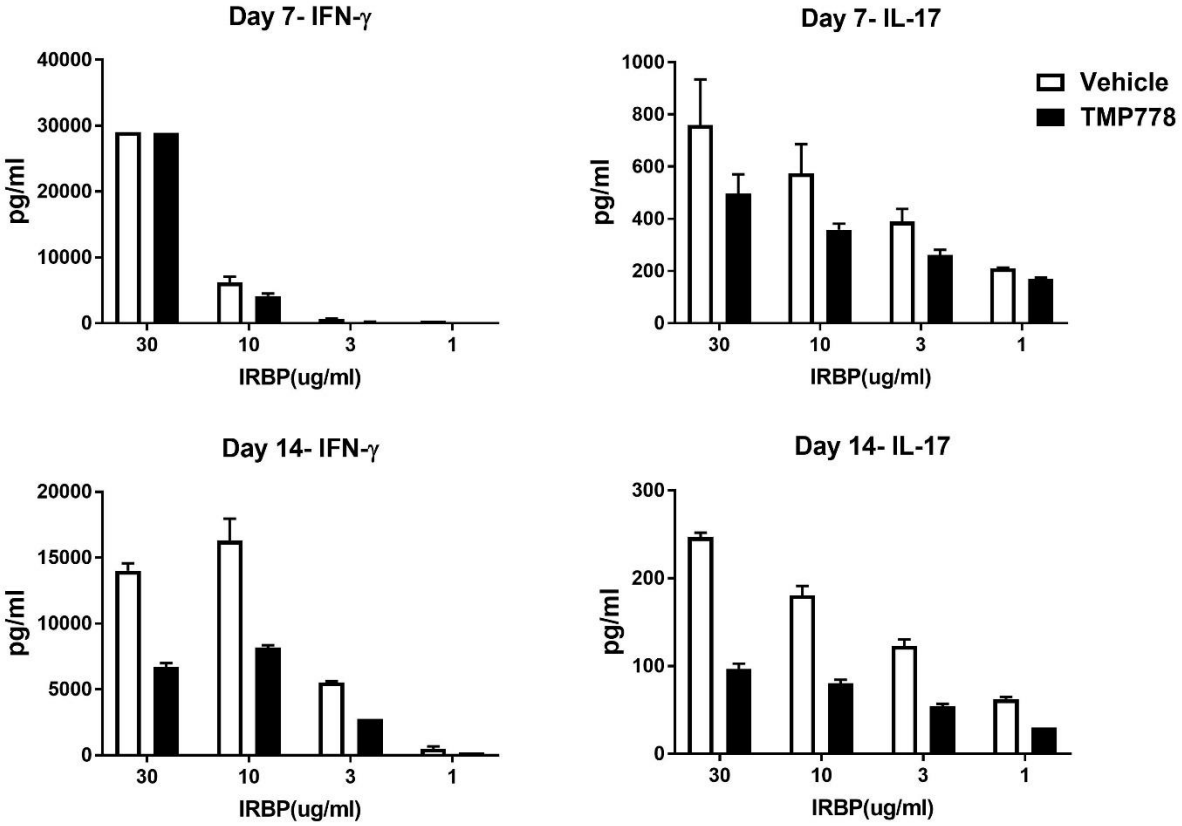
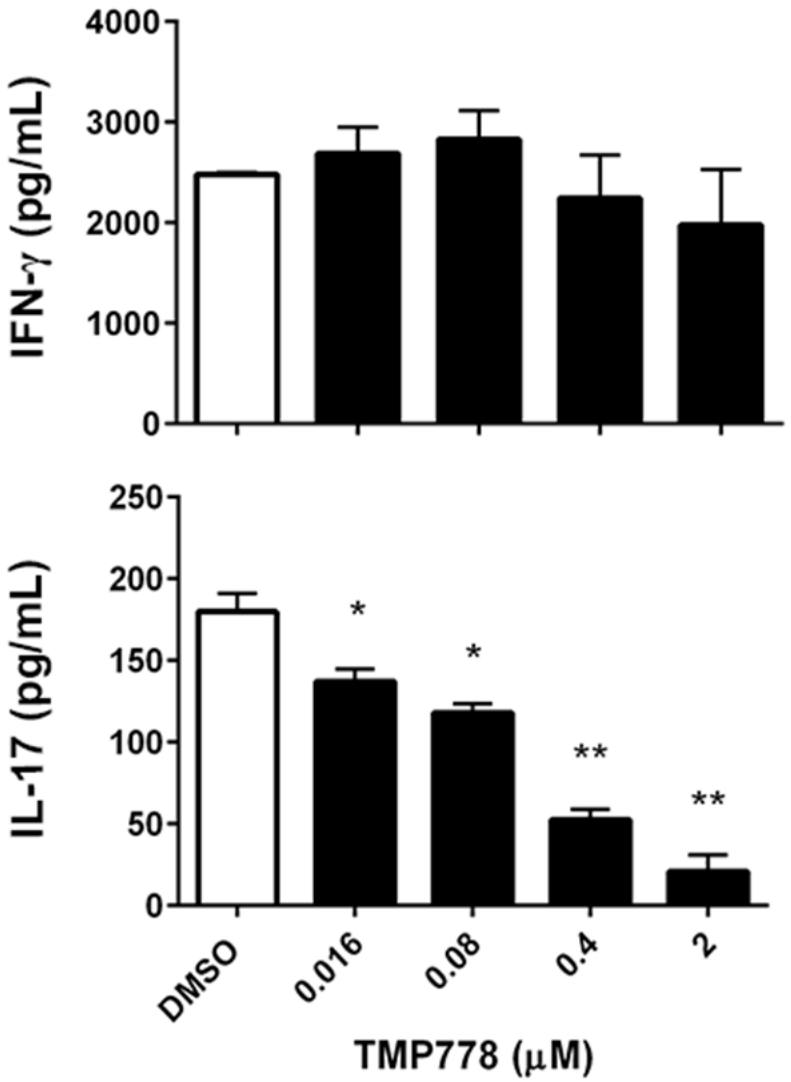
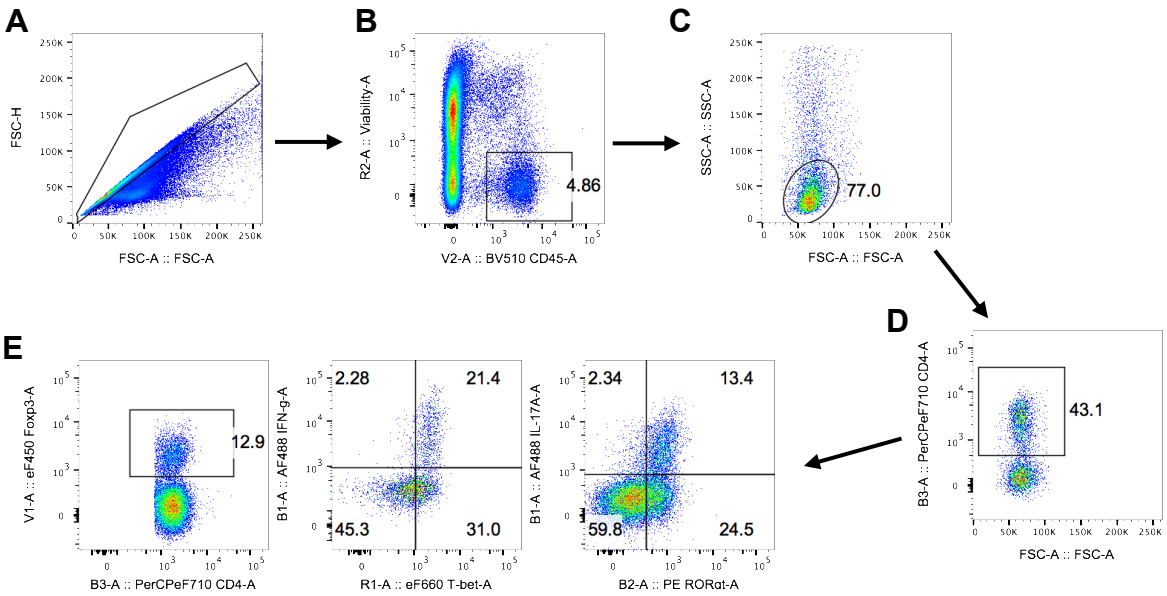


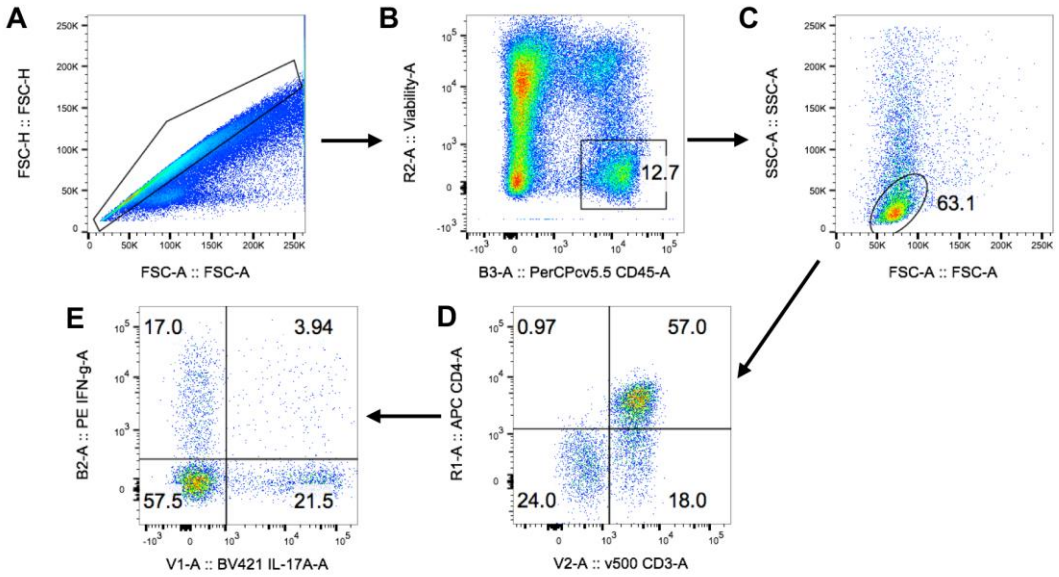
Supporting Information Fig.1. A representative experiment result of levels of IFN-γ and IL-17 in supernatants of spleen cell cultures from mice immunized with IRBP and treated with TMP778 or the vehicle. Splenocytes were collected on days 7 or 14 post immunization and cultured with IRBP at the indicated concentrations. Supernatants were collected after 48 hrs of incubation and were analyzed for the levels of IL-17 and IFN-γ using ELISA kits.



Supporting Information Fig.2. TMP778 selectively inhibits generation of Th17 cells, but not of Th1 cells, when added to cultures undergoing activation/polarization. Cultures of naïve CD4 cells were stimulated with anti-CD3/CD28 antibodies for 48 hrs in the presence of the indicated concentration of TMP778, or DMSO (the solvent control), at 1:1,000, and supernatants of the cultures were examined for the levels of IL-17 or IFN-γ. The compound inhibits by a dose-response manner the production of IL-17, but not of IFN-γ. A representative experiment; similar results were obtained in two additional experiments. *<0.05; **<0.01.



Supporting Information Fig.3. Representative gating strategy from eye-infiltrating cells. (A) single cells (FSC-A/FSC-H) (B) CD45 versus viability dye within the single cells allow detection of live CD45^{+} cells. (C) Lymphocyte within the live CD45^{+} cells (D) CD4^{+} within the lymphocytes population. (E) Foxp3 versus CD4 profile, IFN-γ versus Tbet, or Il-17A versus ROR**γ**t profile within the CD4^{+} population allow the identification of regulatory CD4^{+} T cells , Tbet $^{+}$ or RORγt $^{+}$ CD4^{+} T cells.



Supporting Information Fig.4. Representative gating strategy from eye-infiltrating cells. (A) single cells (FSC-A/FSC-H) (B) CD45 versus viability dye within the single cells allow detection of live $CD45^+$ cells. (C) Lymphocyte within the live $CD45^+$ cells (D) CD3 versus CD4 profile within the lymphocytes population allows the identification of $CD4^+$ T cells. (E) IFN-γ versus IL-17A profile within the $CD3^+CD4^+$ population allows the identification of IFN-γ or/and IL-17A producing $CD4^+$ T cells.