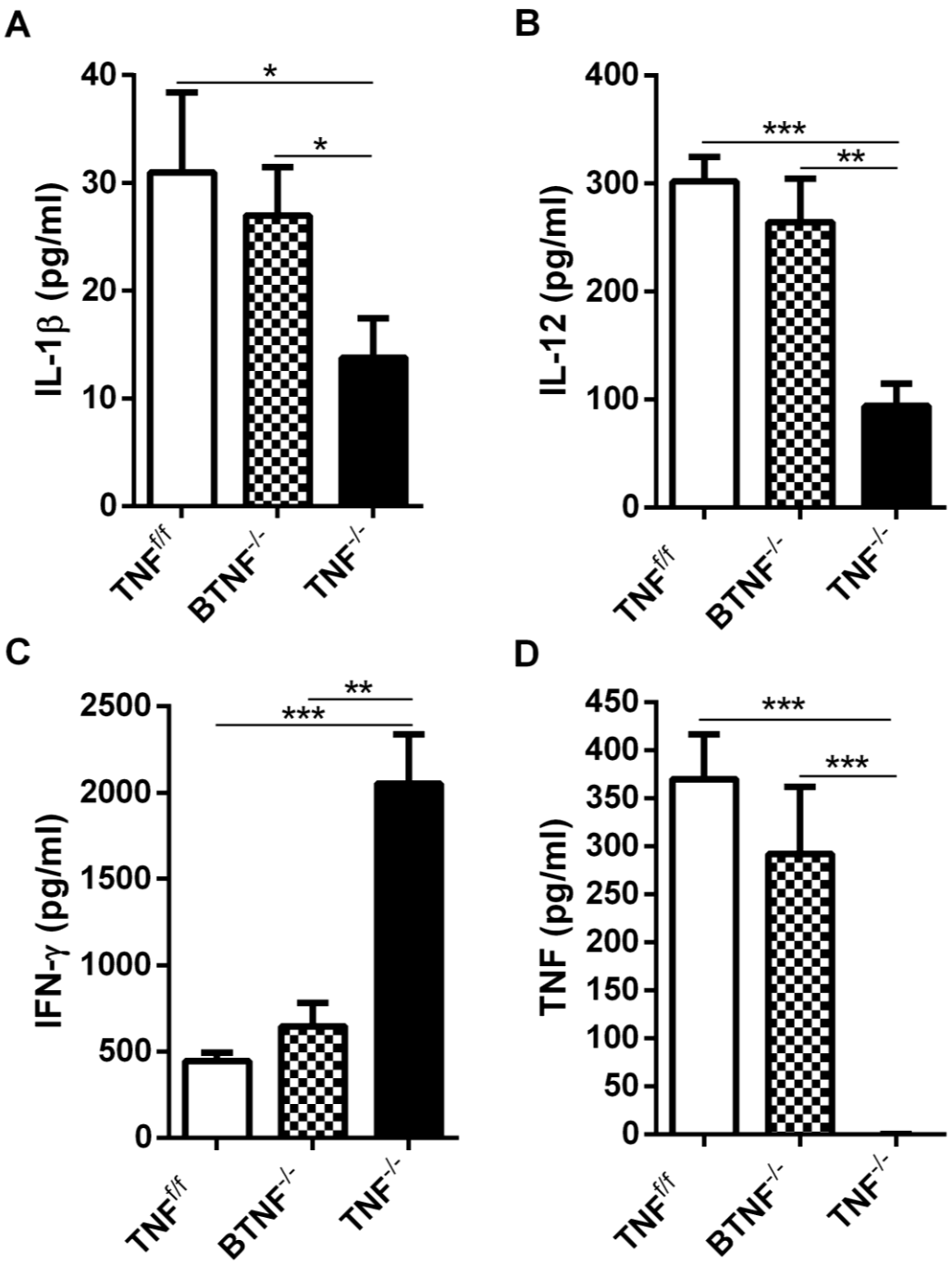

Figure S1. Dysregulation of Th1 cytokine response in mice with complete ablation of TNF. ELISA of IL-1β, IL-12, TNF and IFN-γ in brain supernatants from $TNF^{f/f}$, $BTNF^{-/-}$ and $TNF^{-/-}$ mice infected with *M. tuberculosis* at week 3 post-infection. Data represent a pool of two independent experiments and are shown as SD. $*P < 0.05$, $**P < 0.01$, $***P < 0.001$.

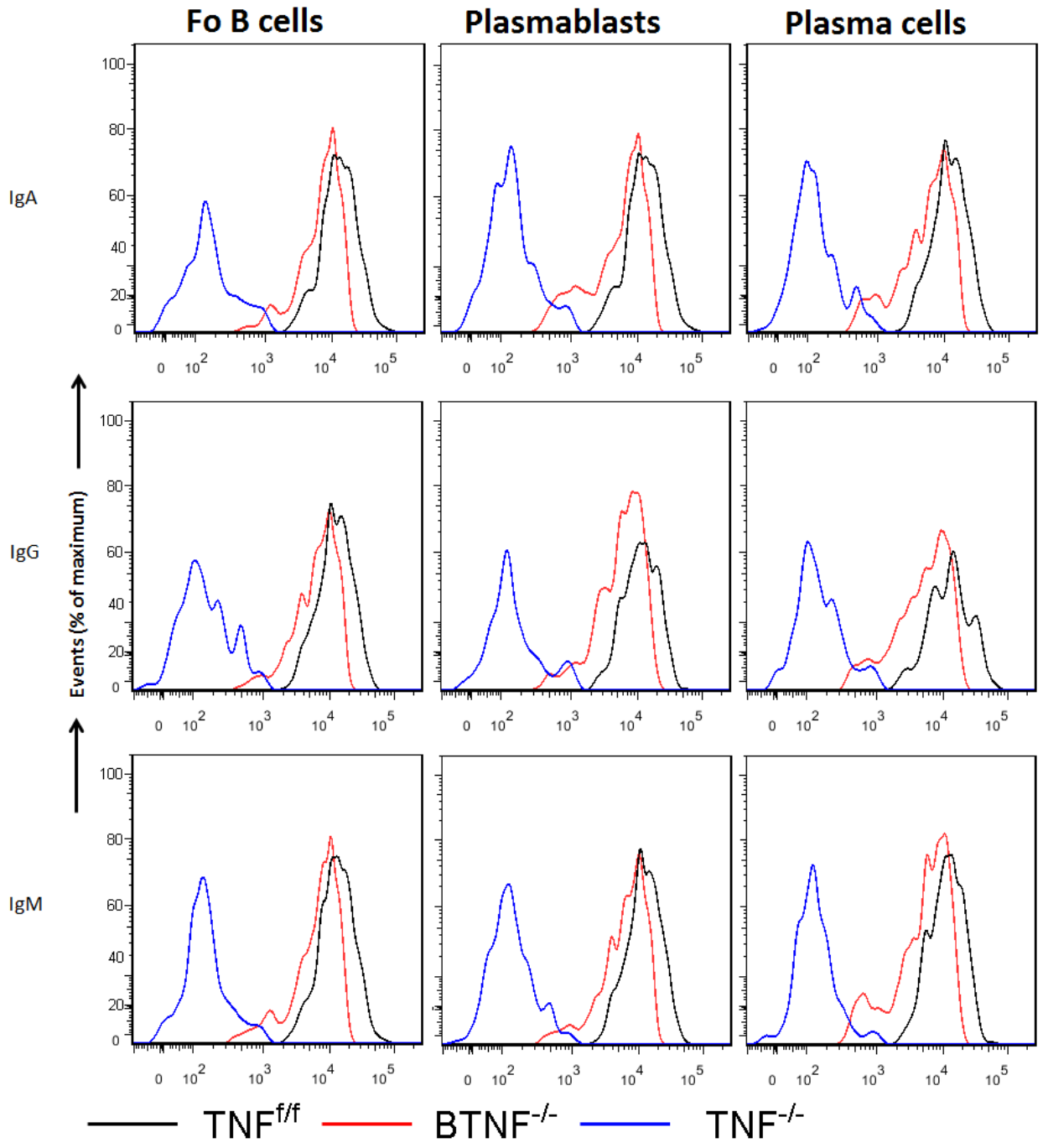

Figure S2. Antibody productions are affected in TNF$^{-/-}$ mice. Intensity of staining of B cell subsets (Fo B cell, Plasmablasts and plasma cells from the TNF$^{f/f}$, BTNF$^{-/-}$ and TNF$^{-/-}$ mice infected with *M. tuberculosis* at week 3 post-infection. This experiment was repeated three or more times, data are a pool of these repeats

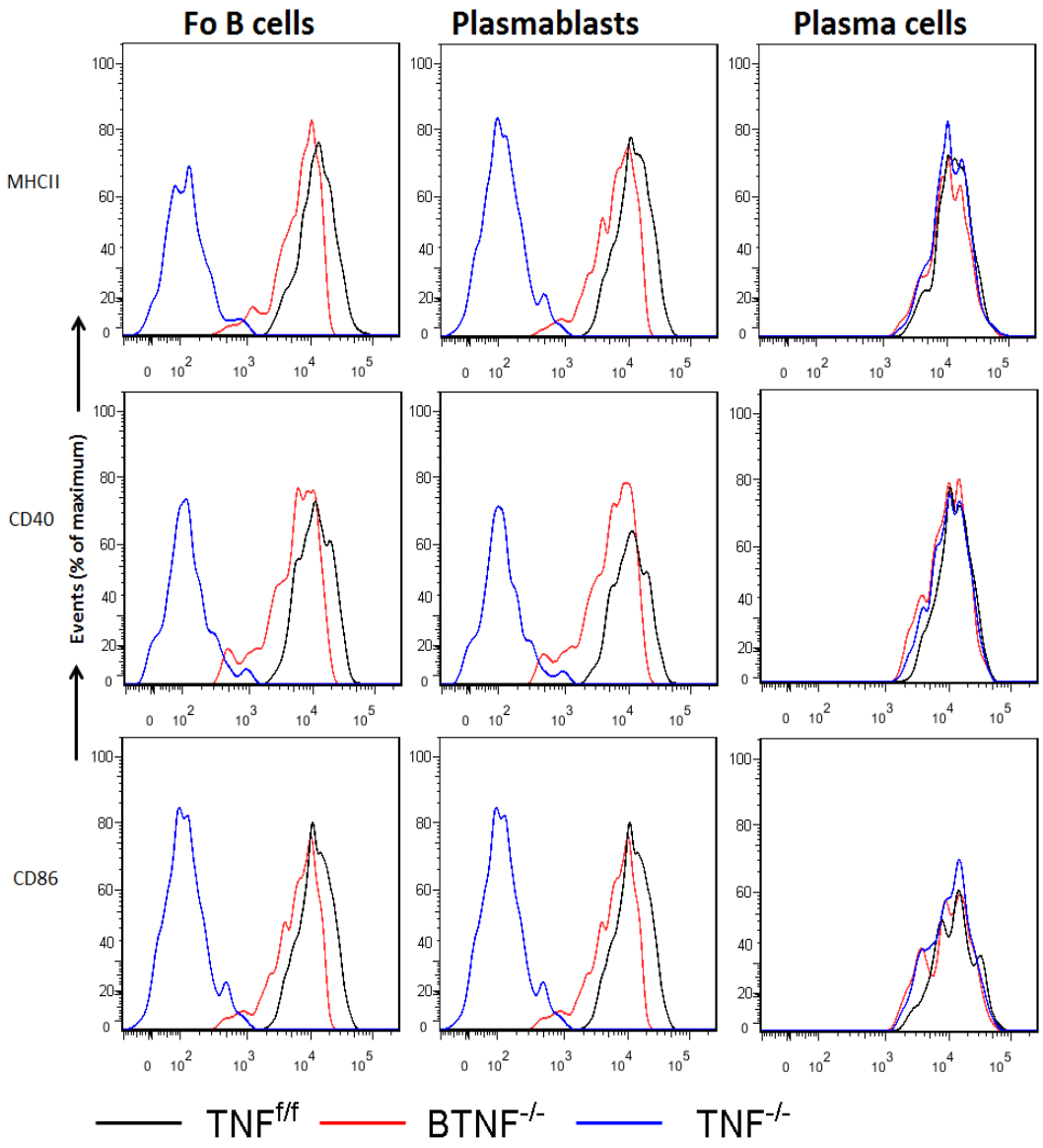

Figure S3. Lack of TNF prejudice the expression of surface markers in Fo B cells and plasmablasts after *M. tuberculosis* infection in mice. Flow-cytometric detection of the MHC, CD40 and CD86 in the brain of $TNF^{f/f}$, $BTNF^{-/-}$ and $TNF^{-/-}$ mice infected with *M. tuberculosis* at week 3 post-infection. This experiment was repeated three or more times, data are a pool of these repeats.

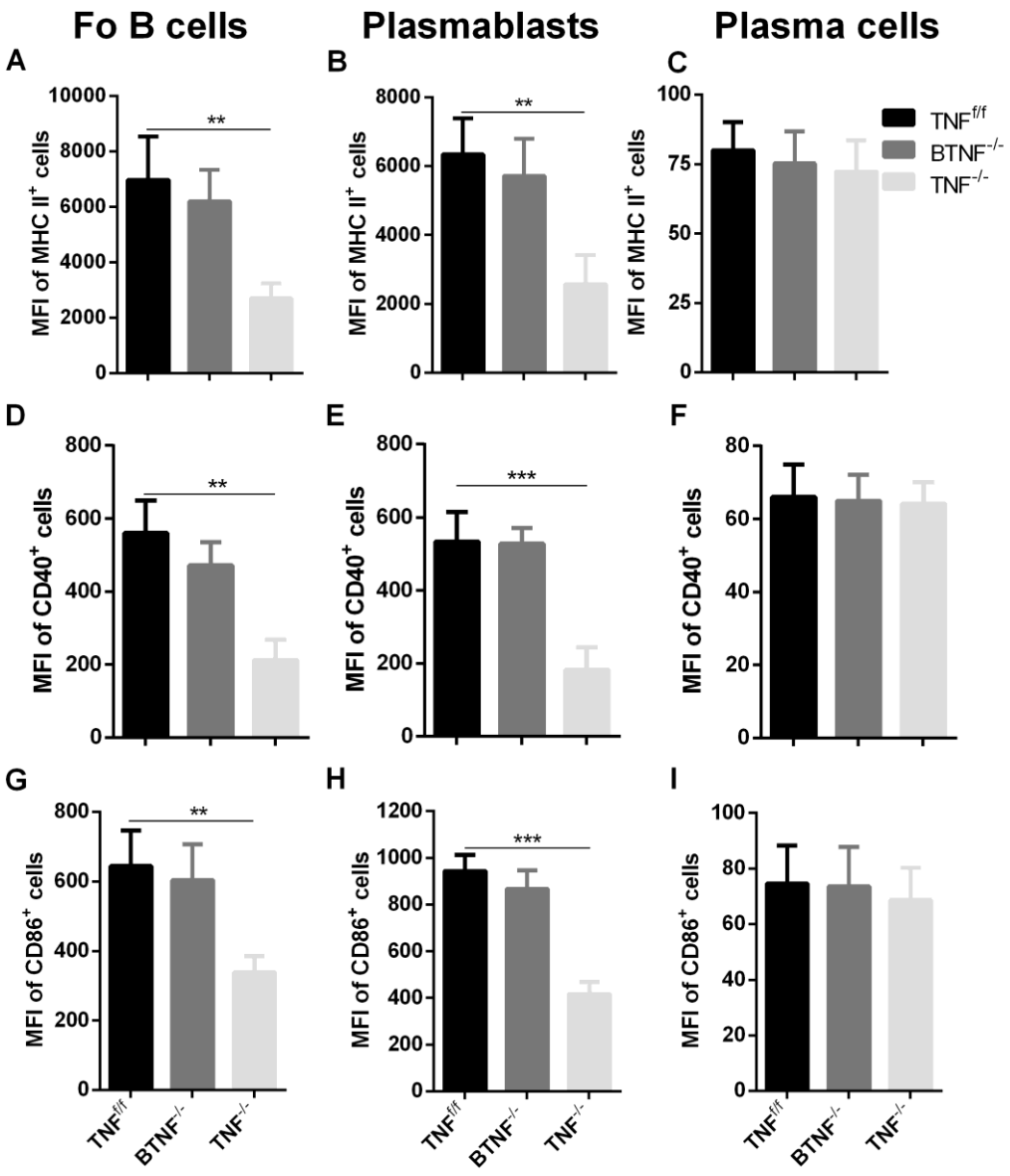

Figure S4. Decreased mean fluorescence intensity of MHC II, CD40 and CD86 of Fo B cells, plasmablasts and plasma cells in complete TNF mice during experimental CNS tuberculosis. The mean fluorescence intensity (MFI) of MHC II (A,B,C), CD40 (D,E,F) and CD86 (G,H,I) in Fo B cells, plasmablasts and plasma cells of $TNF^{f/f}$, $BTNF^{-/-}$ and $TNF^{-/-}$ mice at week 3 post-infection. Data represent a pool of two independent experiments and are shown as SD. $^{**}P < 0.01$ and $^{***}P < 0.001$.