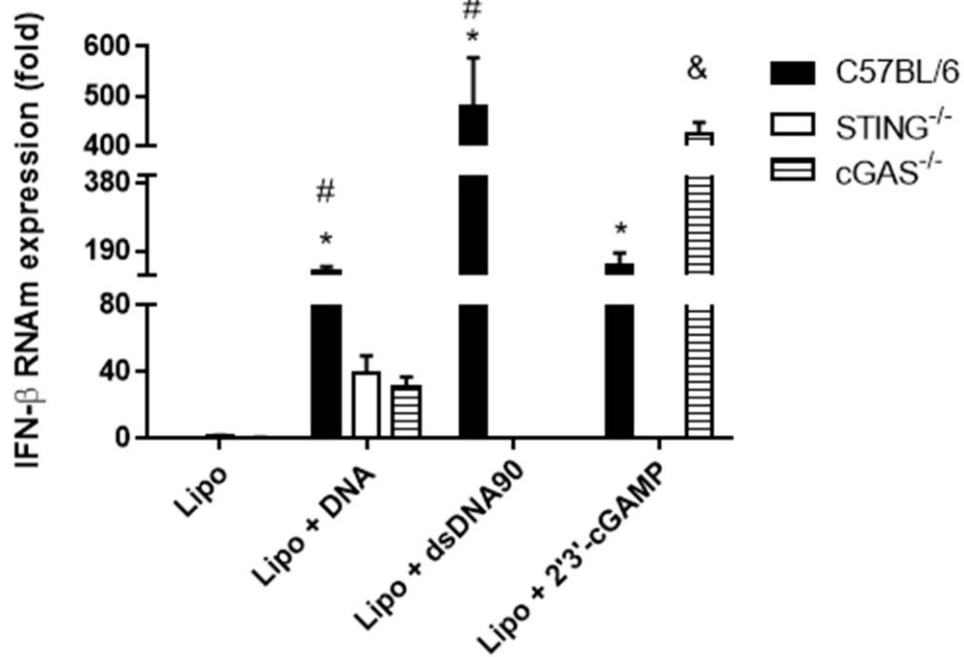
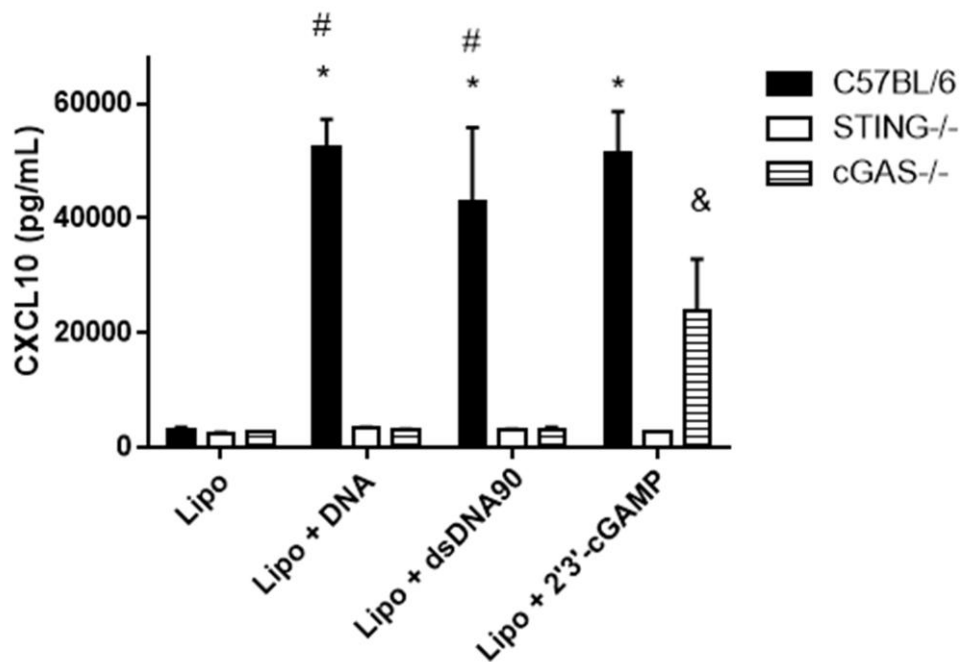


Supplementary Figure 1. qPCR analysis of BMDMs from STING^{-/-} transfected with *Brucella* DNA compared to wild-type macrophages for the following genes: MX1, CXCL11, TNFSF10, Pyhin1 and Pydc3 . Significant differences comparing WT versus STING are denoted by an asterisk (two way ANOVA, $p < 0.05$).

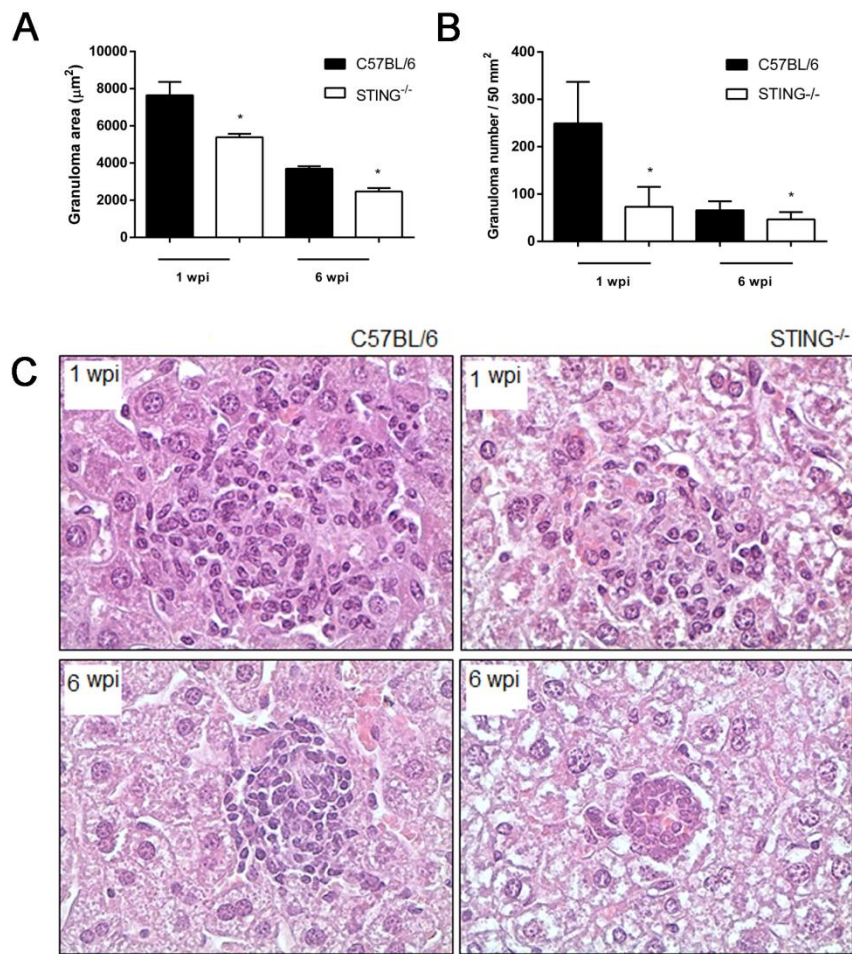
A



B

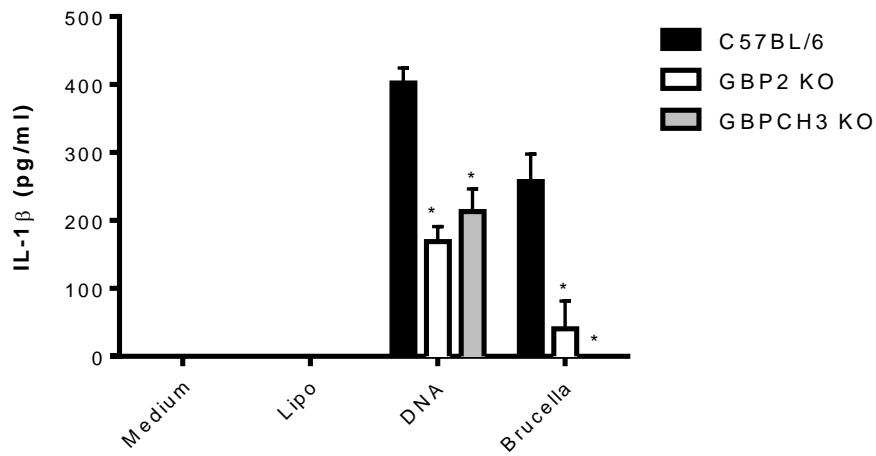


Supplementary Figure 2. Reduced expression of the gene encoding IFN- β and CXCL10 production in STING^{-/-} and cGAS^{-/-} BMDM. Macrophages derived from C57BL/6, STING^{-/-} and cGAS^{-/-} mice were transfected with DNA purified from *B. abortus* (1 μ g/well) encapsulated with lipofectamine, transfected with dsDNA90 (3 μ g/mL) as a positive control, transfected with 2'3'-cGAMP (3 μ g/well) or lipofectamine alone as control. After 17h, (A) total RNA was purified and the gene expression of IFN- β was analyzed by qPCR and (B) culture supernatant were harvested to measure CXCL10 by ELISA assay. Significant differences between STING^{-/-} related to C57BL/6 are denoted by an asterisk, between cGAS^{-/-} compared to C57BL/6 are denoted by # and STING^{-/-} compared to cGAS^{-/-} are denoted by &.



Supplementary Figure 3. Lack of STING modulates liver granuloma formation.

The number (A) and area (B) of granulomas from C57BL/6 and STING^{-/-} (n=5) were measured at 1 and 6 weeks postinfection (wpi). Medial liver lobes from C57BL/6 and STING^{-/-} infected with *B. abortus* were fixed in 10% buffered formaldehyde solution and embedded in paraffin. Tissue sections were processed and stained with H&E to evaluate the formation of granulomas. Granuloma numbers were normalized for 50 mm² of hepatic tissue. These graphs are representative of two independent experiments. (C) Digital images of representative granulomas (original magnification x40). Significant differences from STING KO compared to C57BL/6 are denoted by an asterisk (two-way ANOVA, $p < 0.05$). Size bar shown corresponds to 50 µm.



Supplementary Figure 4. BMDMs derived from C57BL/6, GBP2 KO and GBPCH3 KO mice were infected with *B. abortus* (MOI 100:1), transfected with lipofectamine or *Brucella* genomic DNA (1µg/well). Culture supernatants were harvested 17 hrs postinfection and IL-1β secretion was determined by ELISA.