

Supporting Materials

Modulation of Splenic B Cell Subsets during Experimental *Leishmania donovani* Infection in BALB/c Mice

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Supporting Information

Supplementary Figures

Figure S1:

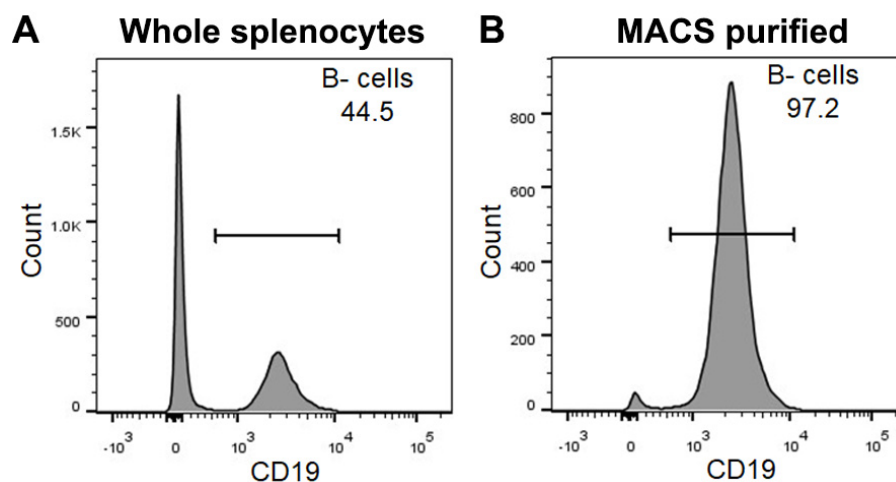


Figure S1: B-cell purification by Magnetic associated cell sorter (MACS). (A) Before purification with MACS (whole splenocytes). (B) After purification with MACS.

Figure S2:

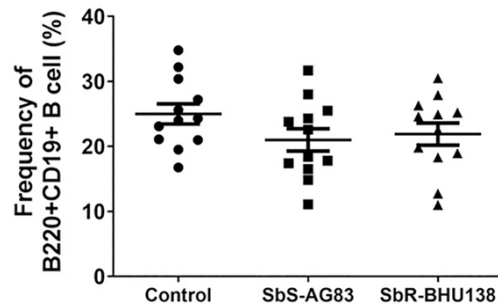


Figure S2: Percentages of B220+CD19+ B cells from spleen of BALB/c mice upon infection with SbS-AG83 and SbR-BHU138 *Leishmania* strains in comparison with uninfected control mice. Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test shows no significance difference between control and infection (Control, n=12; SbS-AG83, n= 12; SbR-BHU138, n=12).

Figure S3:

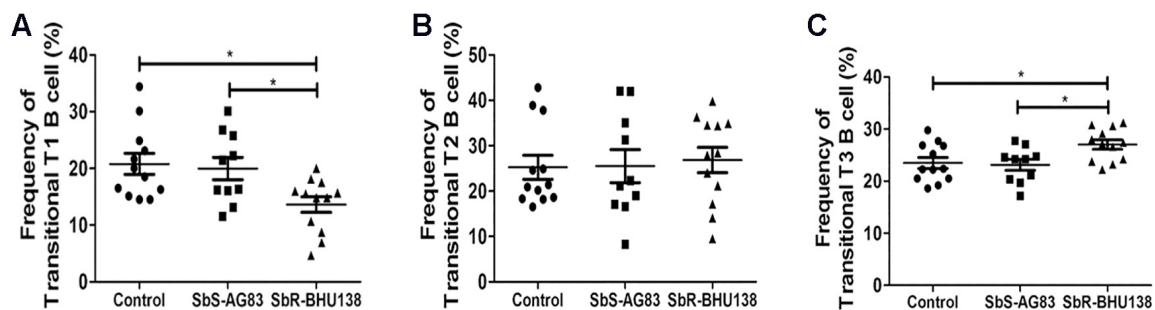


Figure S3: Modulation of splenic Transitional B cell subsets in BALB/c mice while infection with SbS-AG83 and SbR-BHU138 *Leishmania* strains in comparison with uninfected control mice. Frequency of splenic Transitional T1 (A), T2 (B) and T3 (C) B cells while infection with *Leishmania* in BALB/c mice (Control, n=12; SbS-AG83, n= 10; SbR-BHU138, n=12). Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test was used; the level of significance is indicated by p values (*p < 0.05).

Figure S4:

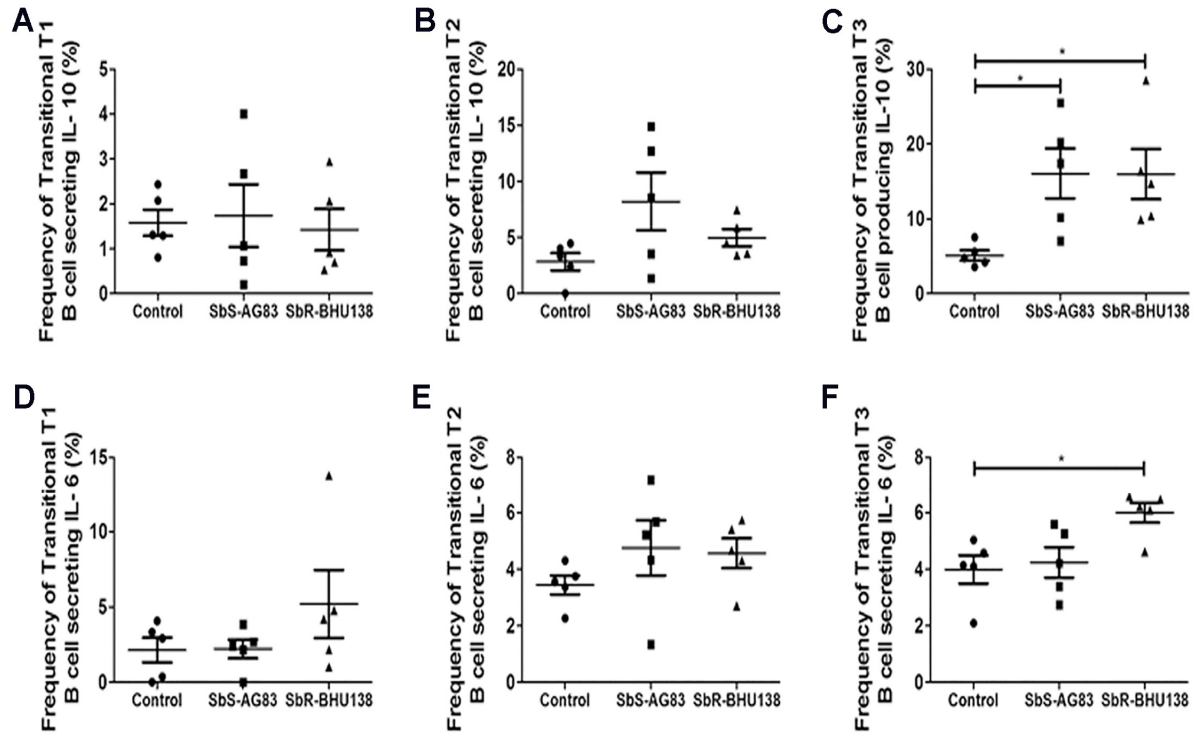


Figure S4: Secretion of different cytokines from splenic Transitional B cell subsets in BALB/c mice while infection with *SbS-AG83* and *SbR-BHU138* *Leishmania* strains in comparison with uninfected control mice. Frequency of IL-10 secreting splenic Transitional T1 (A), T2 (B) and T3 (C) B cells while infection with *Leishmania* in BALB/c mice (n=5 in each group). Frequency of IL-6 secreting splenic Transitional T1 (D), T2 (E) and T3 (F) B cells while infection with *Leishmania* in BALB/c mice (n=5 in each group). Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test was used; the level of significance is indicated by p values (*p < 0.05).

Figure S5:

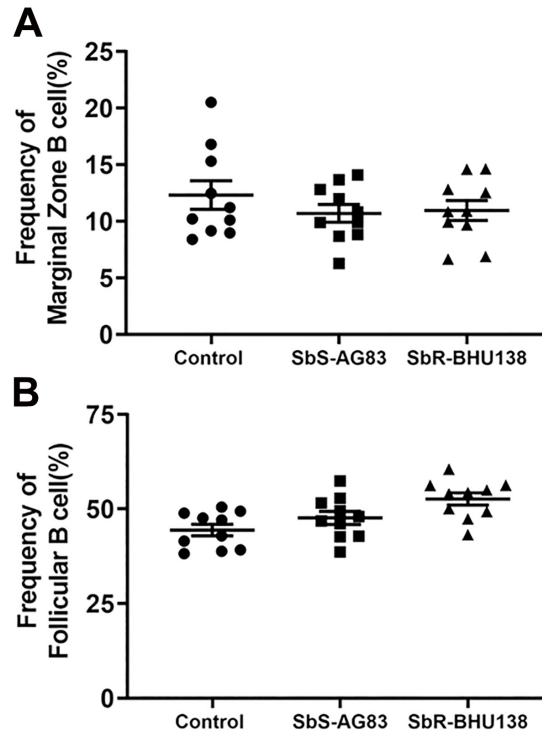


Figure S5: Modulation of splenic Marginal Zone and Follicular B cells while infection with antimony drug-sensitive and -resistant *Leishmania* strains. Frequencies of splenic Marginal Zone B cells (**A**) and Follicular B cells (**B**) in BALB/c mice infected with SbS-AG83 and SbR-BHU138 *Leishmania* strains in comparison with uninfected control mice. Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test shows no significance difference between control and infection (n=10 in each group).

Figure S6:

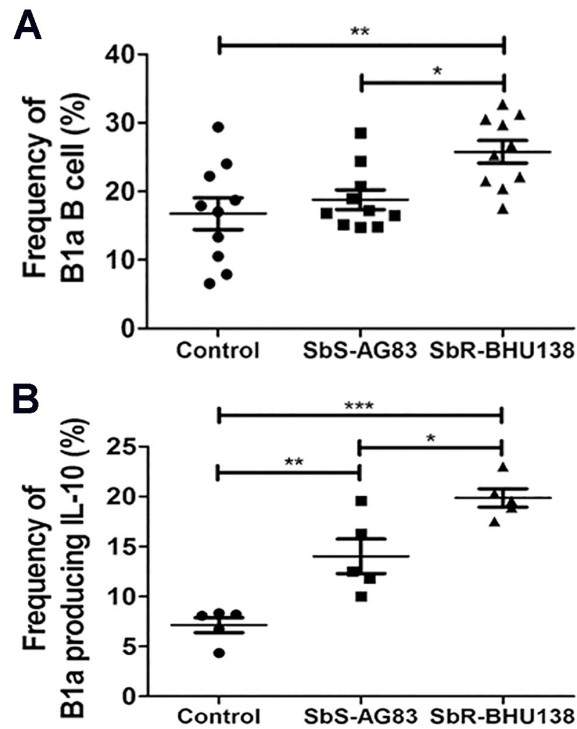


Figure S6: Modulation of splenic B1a B cells while infection with antimony drug-sensitive and -resistant *Leishmania* strains. Frequencies of splenic B1a B cells (n=10 in each group) (**A**) and IL-10 producing B1a B cells (n=5 in each group) (**B**) in BALB/c mice infected with SbS-AG83 and SbR-BHU138 *Leishmania* strains in comparison with uninfected control mice. Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test was used; the level of significance is indicated by p values (*p < 0.05, **p < 0.01, ***p < 0.001).

Figure S7:

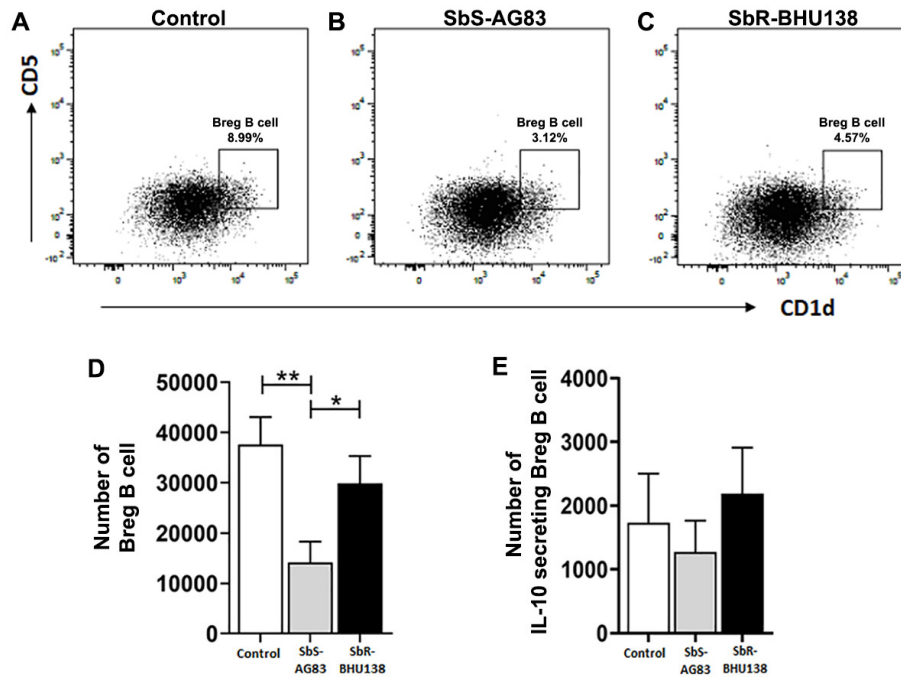


Figure S7: Modulation of splenic Breg B cells while infection with antimony drug-sensitive and -resistant *Leishmania* strains. A representative dot plot of Breg B cells from splenocytes of uninfected control BALB/c mice (A), mice infected with antimony-sensitive (SbS-AG83) (B) and antimony-resistant (SbR-BHU138) (C) *Leishmania donovani*. Number of splenic Breg B cells (n=10 in each group) (D) and IL-10 producing Breg B cells (n=5 in each group) (E) in BALB/c mice infected with SbS-AG83 and SbR-BHU138 *Leishmania* strains in comparison with uninfected control mice. Data were analyzed by one-way ANOVA and Tukey's Multiple comparison test was used; the level of significance is indicated by p values (*p < 0.05, **p < 0.01).