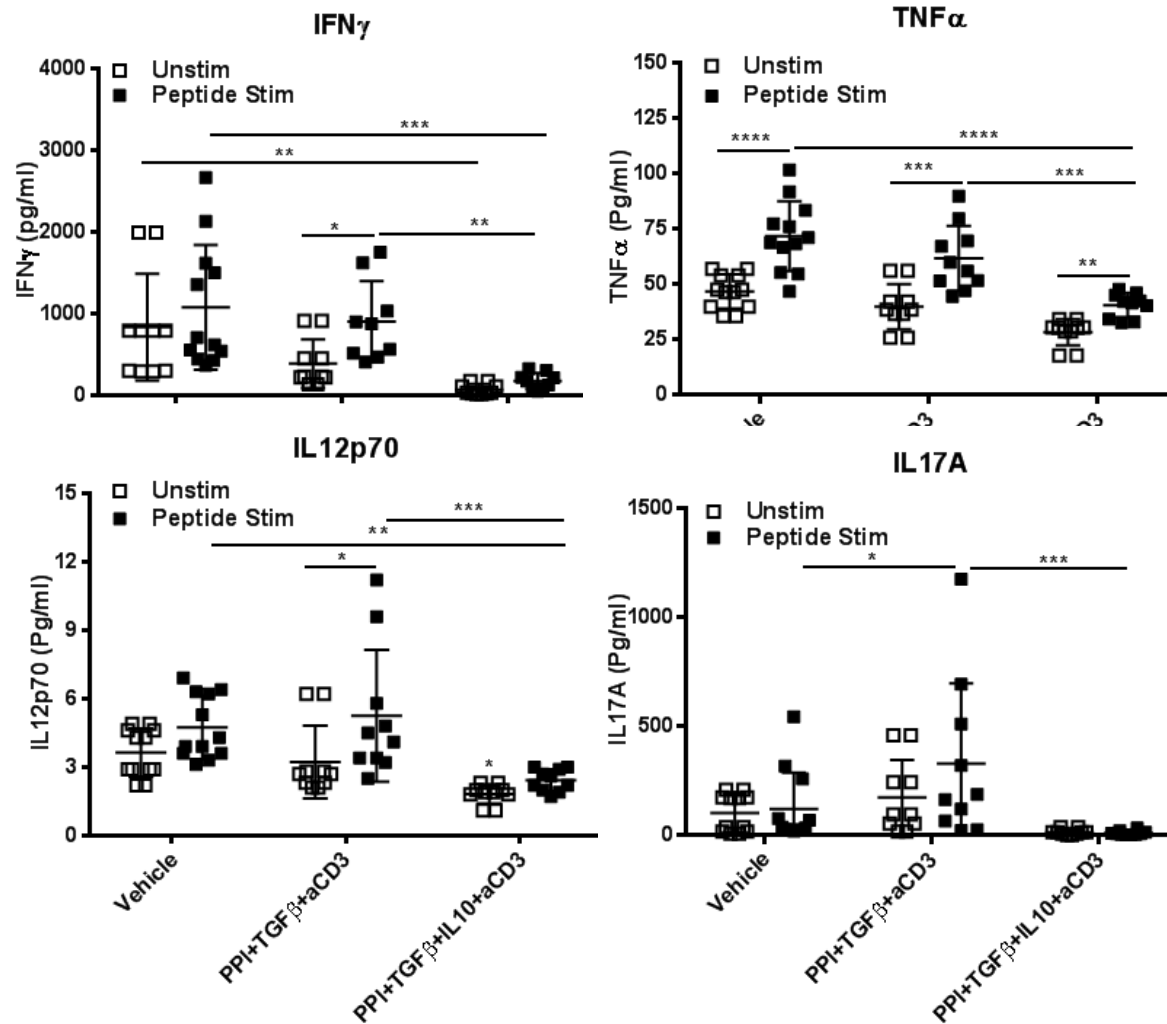
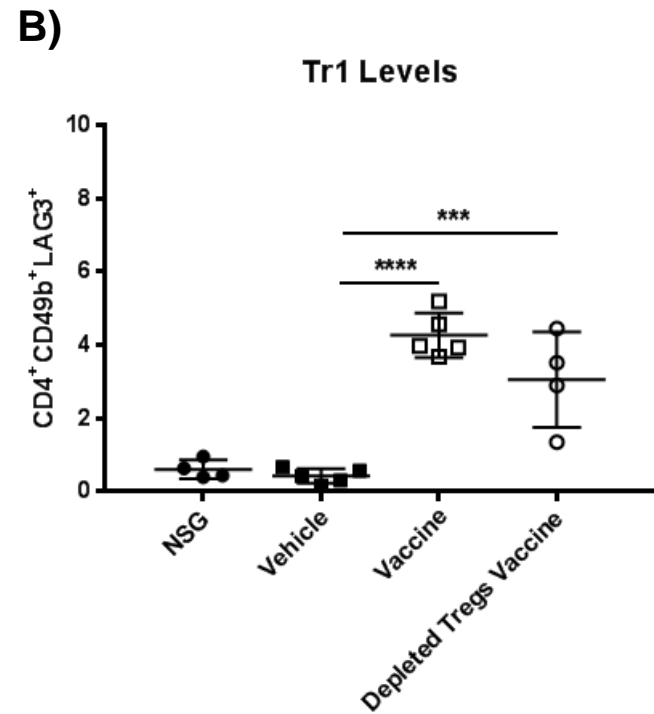
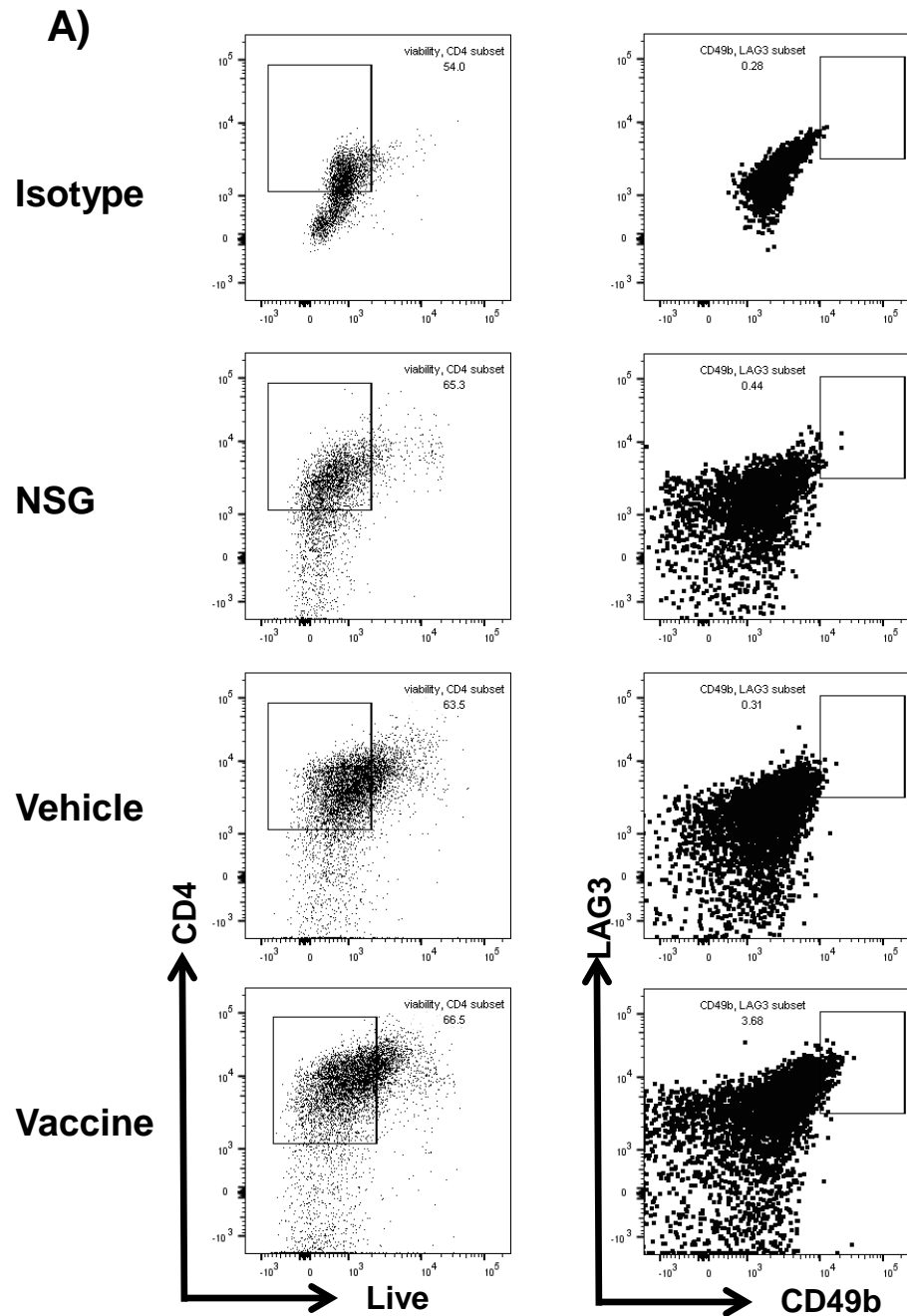


Supplementary Figure 1. *Salmonella*-based combined therapy increases tolerogenic regulatory cytokines. Serum was collected from vaccinated and vehicle treated NOD mice at 60 days post-vaccination and the levels of IL10 and TGFβ were measured using Mouse ELISA Kit. Data presented as means \pm SD from 2 independent experiments. Significant differences were determined by Mann-Whitney *t* test. * $P < 0.05$ differences between combined therapy and vehicle treated.



Supplementary Figure 2. Combined therapy specifically inhibits secretion of inflammatory cytokines. Splenocytes were harvested from NOD mice at day 60 post-vaccination and re-stimulated with insulin (B9-23) peptide *in vitro* for 72 h. Secretion of IFN γ , TNF α , IL12p70 and IL17A were quantified by multiplex Luminex analysis of culture supernatants obtained from peptide stimulated or un-stimulated splenocytes. Data presented as means \pm SD and obtained from 2 independent experiments. Statistical analysis using two-way ANOVA shows the significance between combined therapy and vehicle group (*p < 0.05, **p < 0.01, ***p < 0.001, ****p < 0.0001)



Supplementary Figure 3. Combined vaccine increases the frequency of Tr1 in NSG mice. Femal 7-8 weeks old of NSG recipient mice were adoptively transferred with indicated cell types. Splenocytes were isolated after 2 months post-transfer. Splenocytes from NSG mice used as negative control. **(A)** Representative FACS plots gated on live CD4 T cells indicate the frequency of CD4⁺CD49b⁺LAG3⁺ T cells in the spleens of mice from the indicated groups. **(B)** Scatter plots of the percentages of CD4⁺CD49b⁺LAG3⁺ Tr1. Data presented as means \pm SD. Statistical analysis using one-way ANOVA shows the significance between splenocytes from vaccine or Treg depleted splenocytes compared to splenocytes from vehicle group (***, $p < 0.001$; ****, $p < 0.0001$).