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Supporting Information

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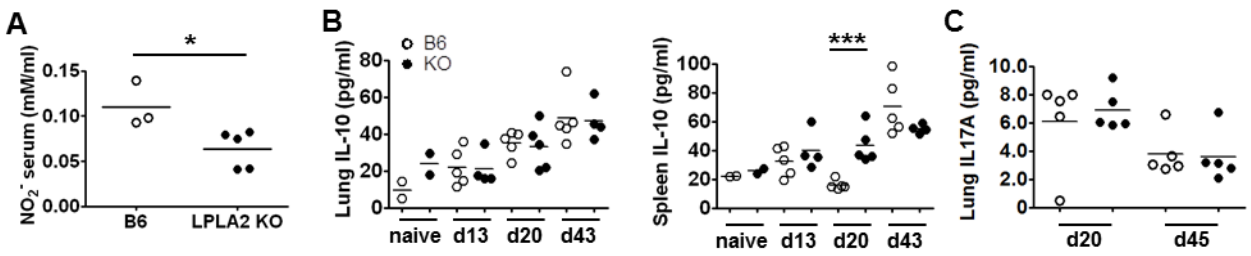
Lysosomal phospholipase A_2: A novel player in host immunity to *Mycobacterium tuberculosis*

Supplemental Figure S1: Production of NO_2^- and IL-10. $LPLA_2$ KO and WT B6 mice were infected by aerosol with 250 *M. tuberculosis* H37Rv per lung. A) Serum NO_2^- levels were determined on day 48 p.i.. B and C) IL-10 or IL-17A levels were measured at the indicated times by CBA. Symbols and bars represent individual mice and means, respectively. Statistical analysis was performed by Student's *t* test (A) or ANOVA and Tukey's Multiple Comparison test (B) (*p<0.05, ***p<0.001).

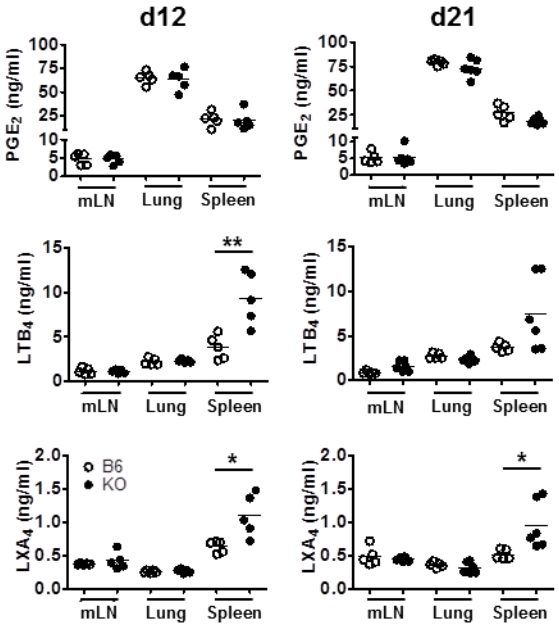
Supplemental Figure S2: Generation of bioactive lipid mediators. $LPLA_2$ KO and WT B6 mice were infected by aerosol with 250 *M. tuberculosis* H37Rv per lung. At the indicated times, PGE_2, LTB_4 and LXA_4 levels were determined in mLN, lung and spleen as described in Material and Methods. Symbols and bars represent individual mice and means, respectively. Statistical analysis was performed by Student's *t* test (*p<0.05, **p<0.01).

Supplemental Figure S3: Proliferation of adoptively transferred OT1 and OT2 T cells. $LPLA_2$ KO and WT B6 mice were infected by aerosol with 250 *M. tuberculosis* H37Rv per lung. After 20 days, CFSE labelled OT1 and OT2 T cells ($1x10^7$, respectively) were transfered i.p., followed by administration of 250 µg ovalbumin per mouse one day later (controls received no antigen). After three days, lung T cells were stained for surface expression of CD90.2, CD4 and CD8 and analyzed for proliferation by flow cytometry as measured by the gradual loss of CFSE fluorescence. A) Representative dot plots. B) Quantification of T cell proliferation shown in A. Bars represent means ± SD (n = 3).

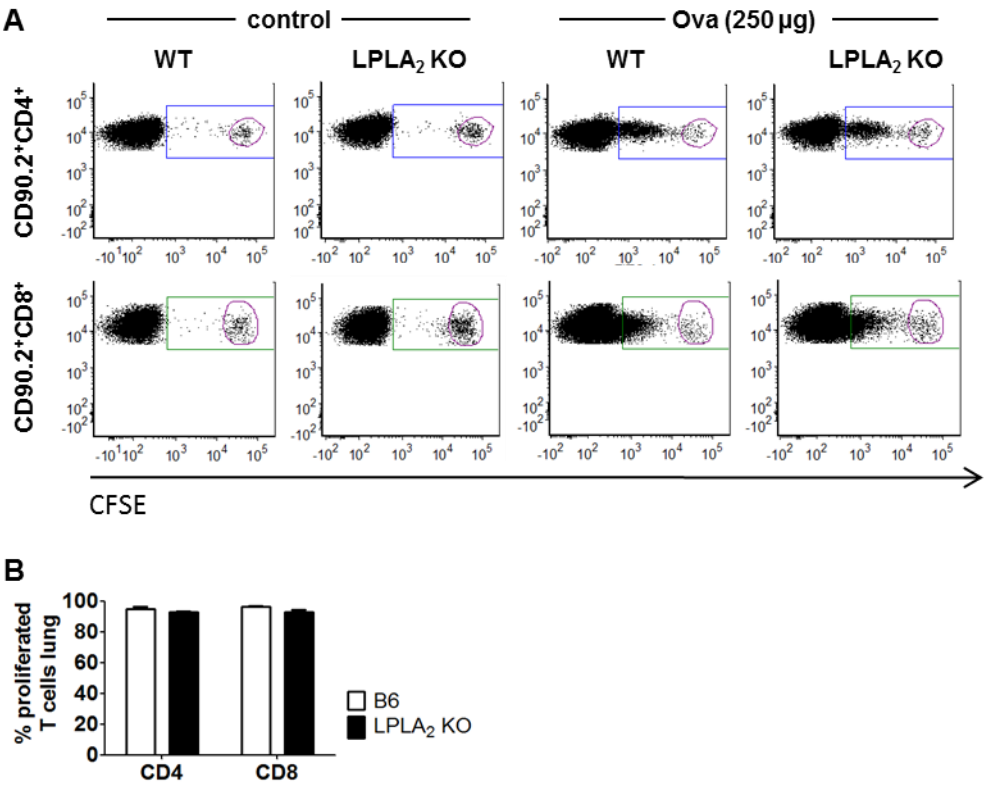
Supplemental Figure S4: Gating strategies. A) Gating strategy for analysis of T cell responses shown in Figures 4 and 6: Single cell suspensions were gated on CD90.2, followed by CD4 and CD8. $CD44^+$ CD4 or CD8 T cells were further analyzed for cytokine production as shown in Figures 4 and 6. B) Gating strategy for analysis of inflammatory monocytes shown in Figure 4 A: Lung single cell suspensions were gated on CD11b. $CD11b^+$ cells were gated for Ly6G against SSC-A.



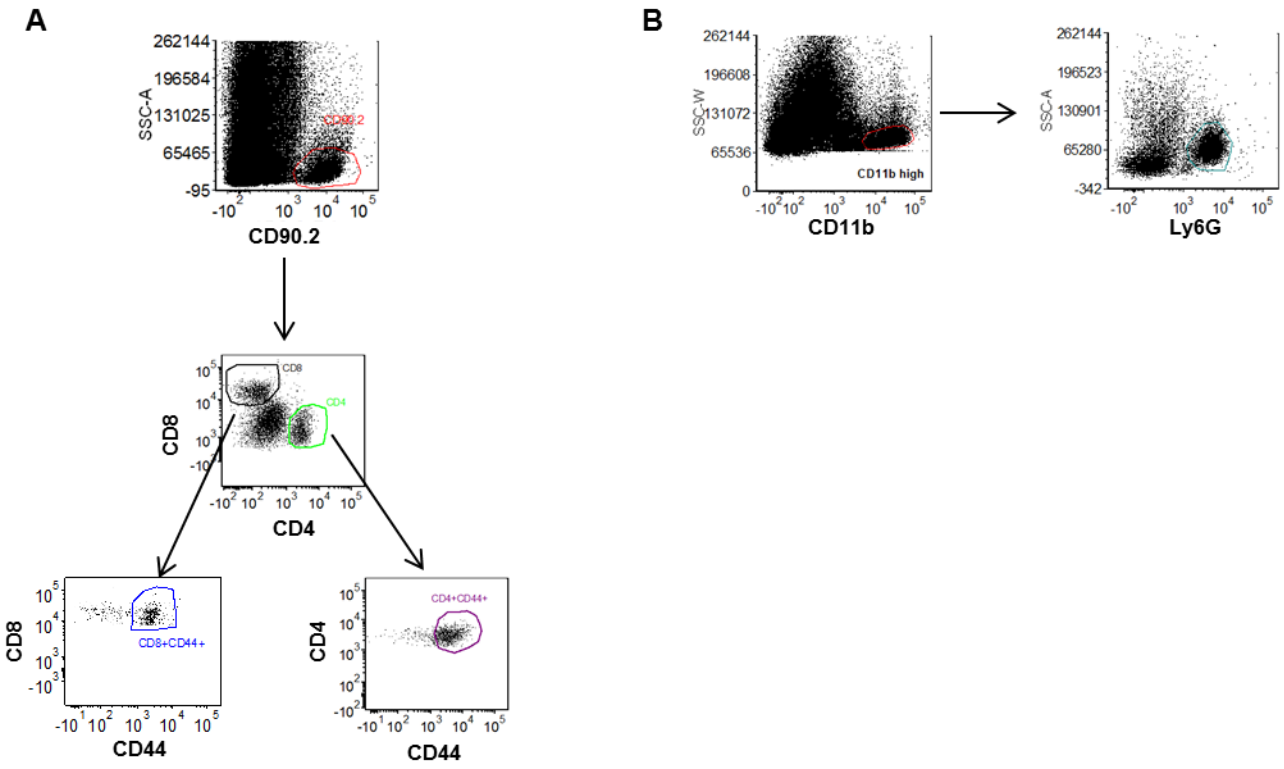
Supplemental Figure S1



Supplemental Figure S2



Supplemental Figure S3



Supplemental Figure S4