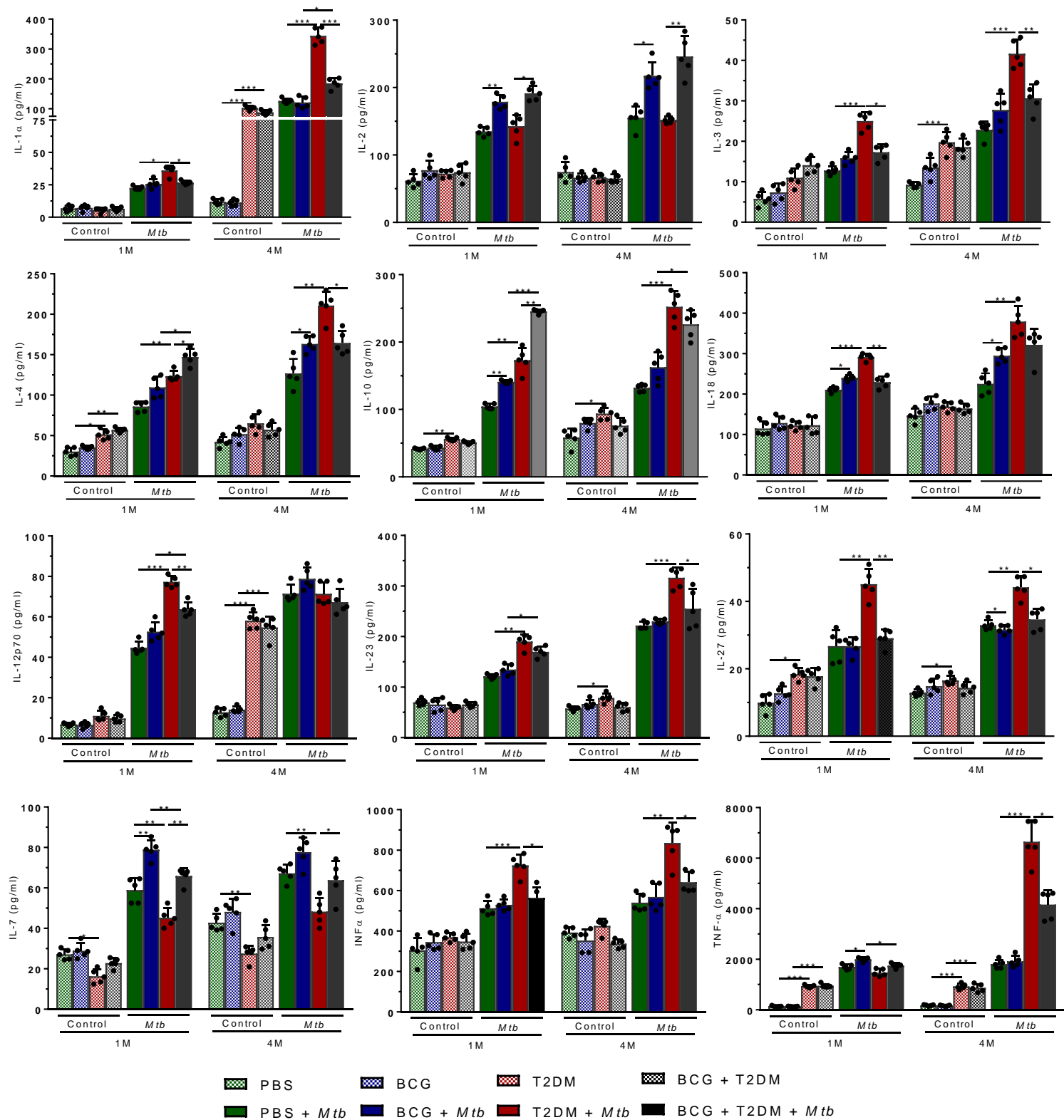


# Supplementary Figures and Tables

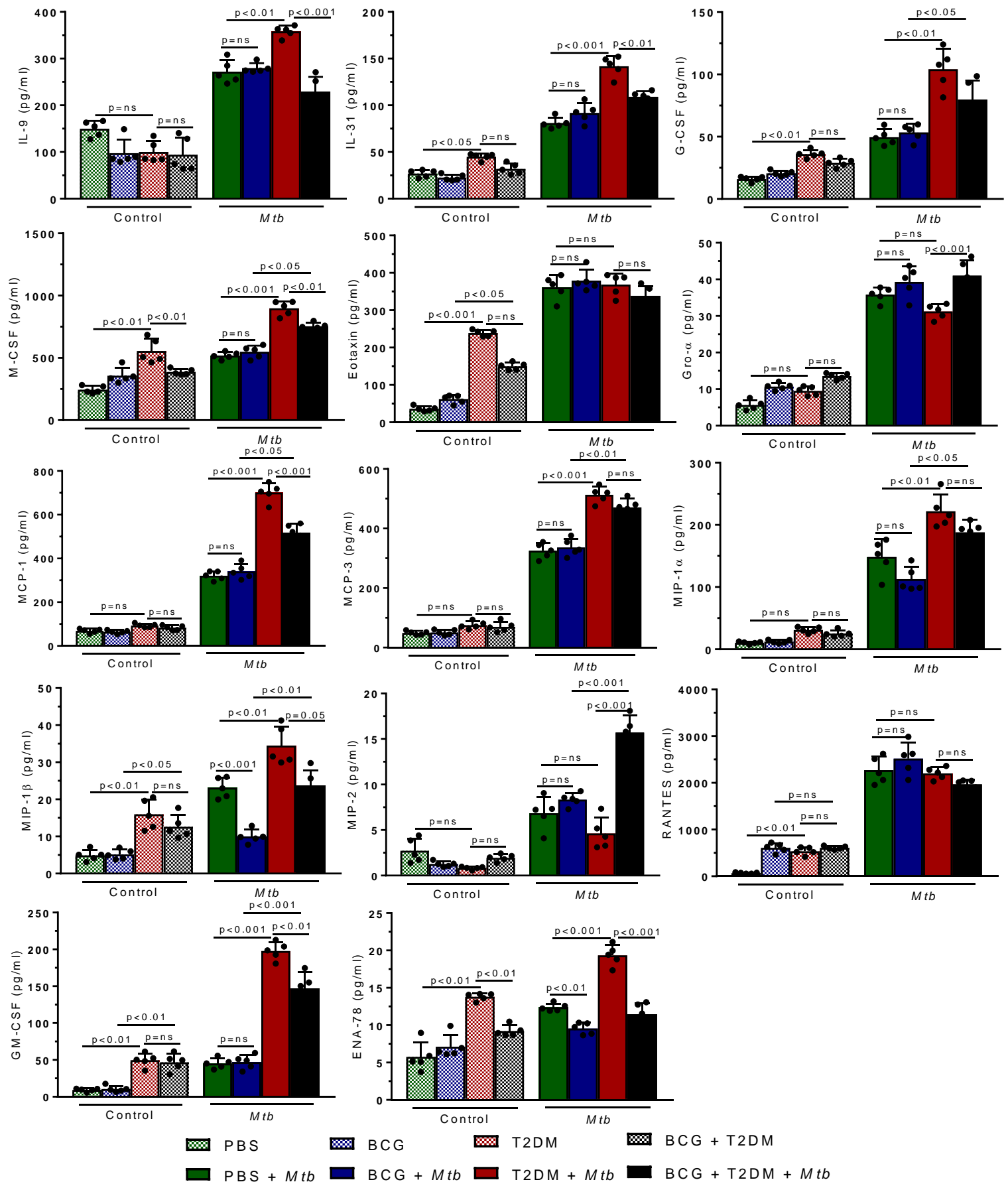
Supplementary Figure 1



**Supplementary Fig. 1. BCG vaccination alters cytokine levels in T2DM mice infected with *Mtb*.**

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. At one and 4 months p.i., lung homogenates from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were collected, and cytokine levels were measured in a multiplex ELISA. Experiments were performed two times and each time 2 to 3 mice per group were used. The data are shown as mean  $\pm$  SDs of  $n=5$  mice per group. The statistical analysis was performed by one-way ANOVA followed Tukey's multiple comparisons test. \*,  $p<0.05$ ; \*\*,  $p<0.01$  and \*\*\*,  $p<0.001$ .

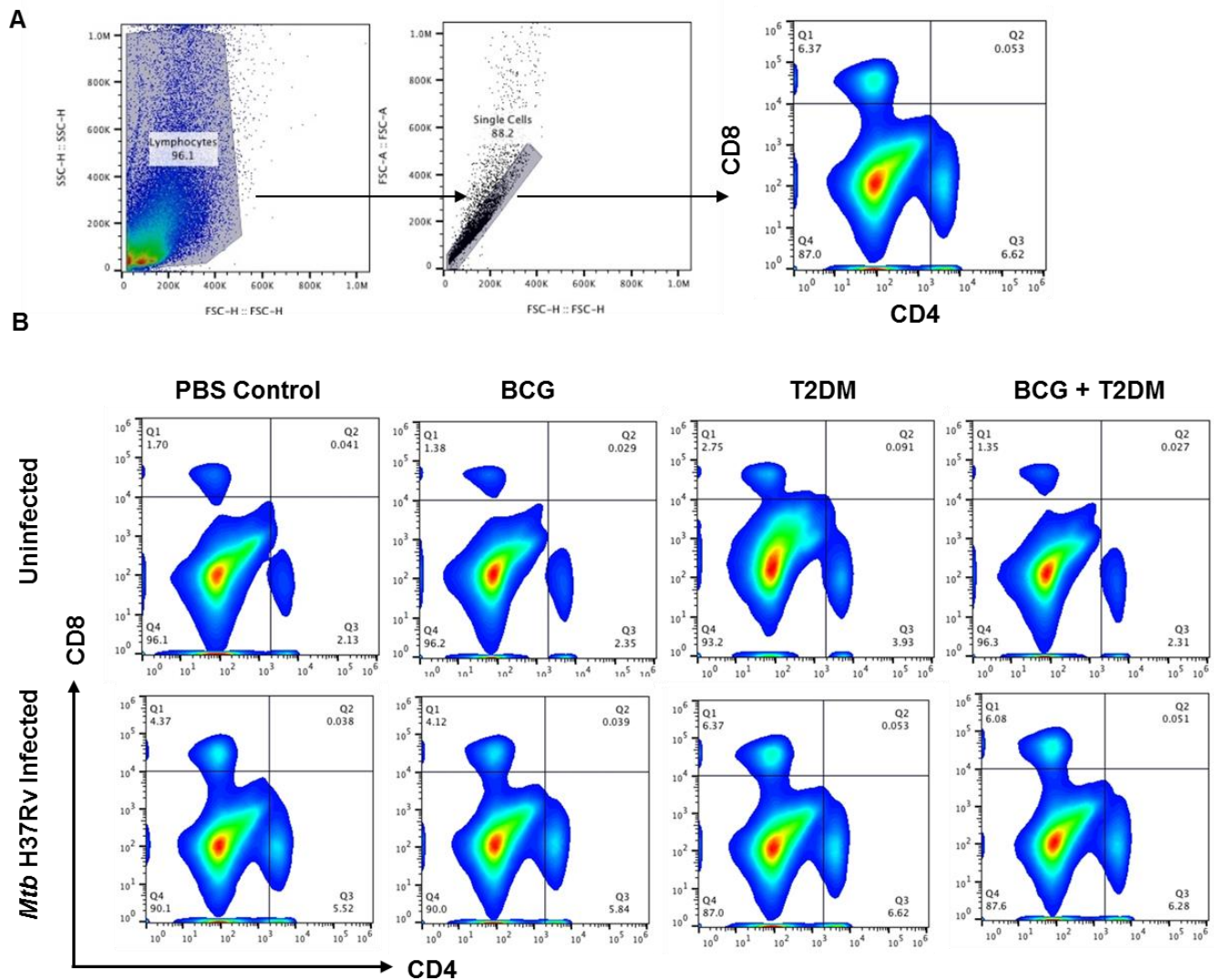
Supplementary Figure 2



**Supplementary Fig. 2. BCG vaccination alters various cytokine and chemokine levels in T2DM mice infected with *Mtb* at four months p.i.**

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At 4 months p.i., lung homogenates from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were collected, and chemokine levels were measured in a multiplex ELISA. Experiments were performed two times and each time 2 to 3 mice per group were used. The data are shown as mean  $\pm$  SDs of  $n=5$  mice per group. The statistical analysis was performed by one-way ANOVA followed Tukey's multiple comparisons test. \*,  $p<0.05$ ; \*\*,  $p<0.01$  and \*\*\*,  $p<0.001$ .

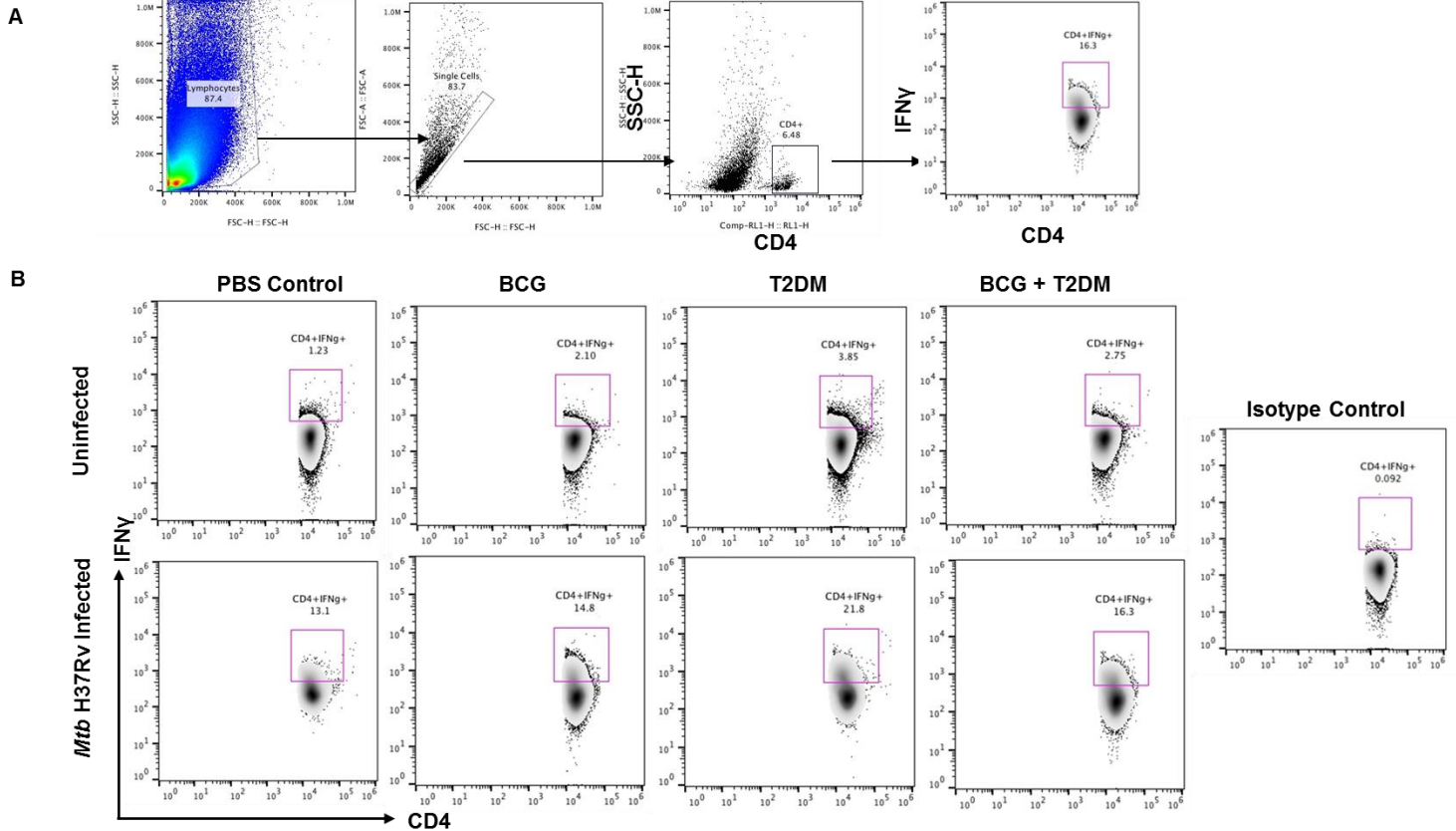
## Supplementary Figure 3



### Supplementary Fig. 3. Gating strategies to determine CD4+ and CD8+ cell populations in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry as described in the methods sections. (A-B) Representative gating strategies for CD4+ and CD8+ cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.

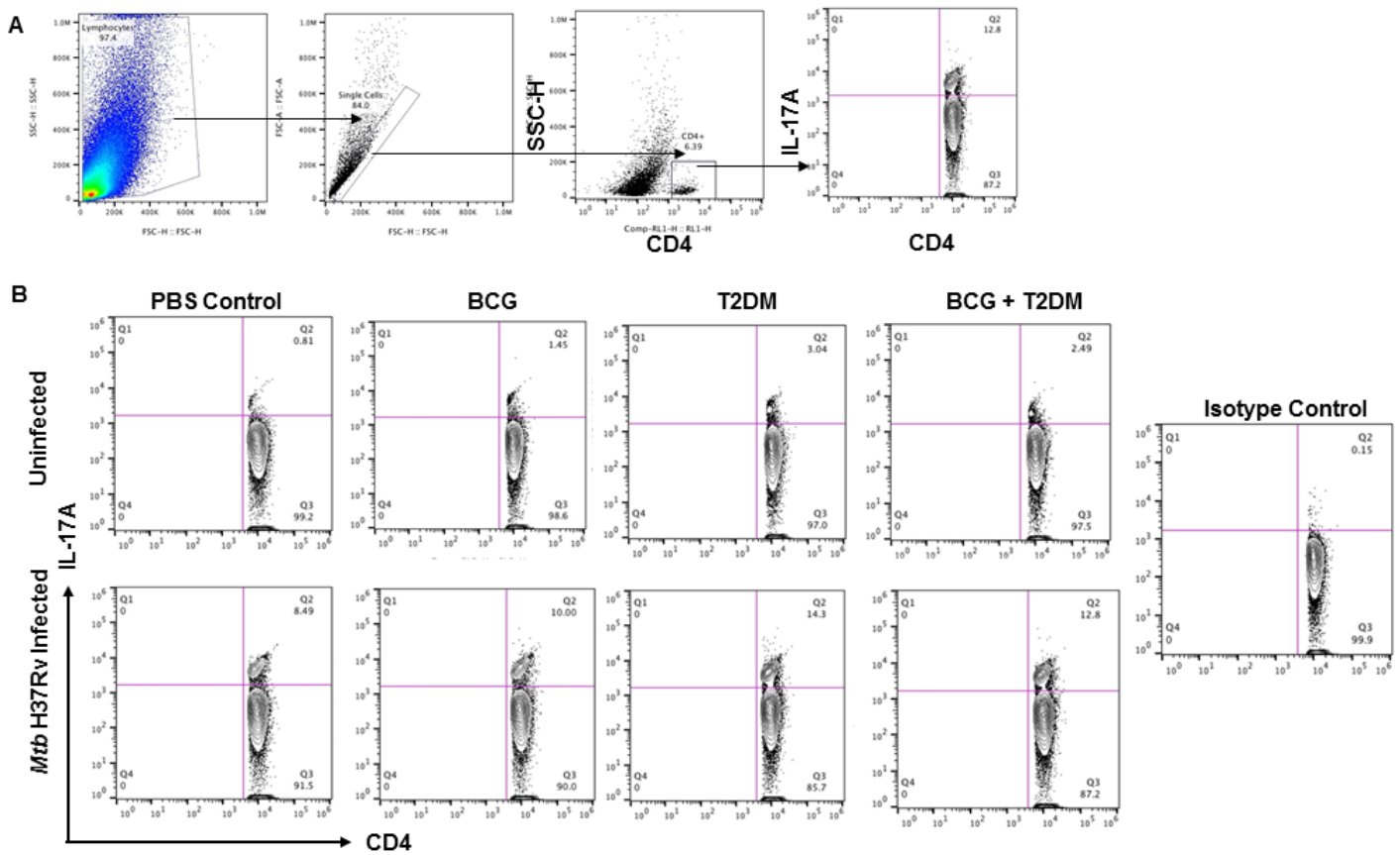
## Supplementary Figure 4



### Supplementary Fig. 4. Gating strategies to determine CD4+IFN- $\gamma$ + cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry by surface staining followed by intracellular staining as described in the methods section. (A-B) Representative gating strategies for CD4+IFN- $\gamma$ + cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.

## Supplementary Figure 5

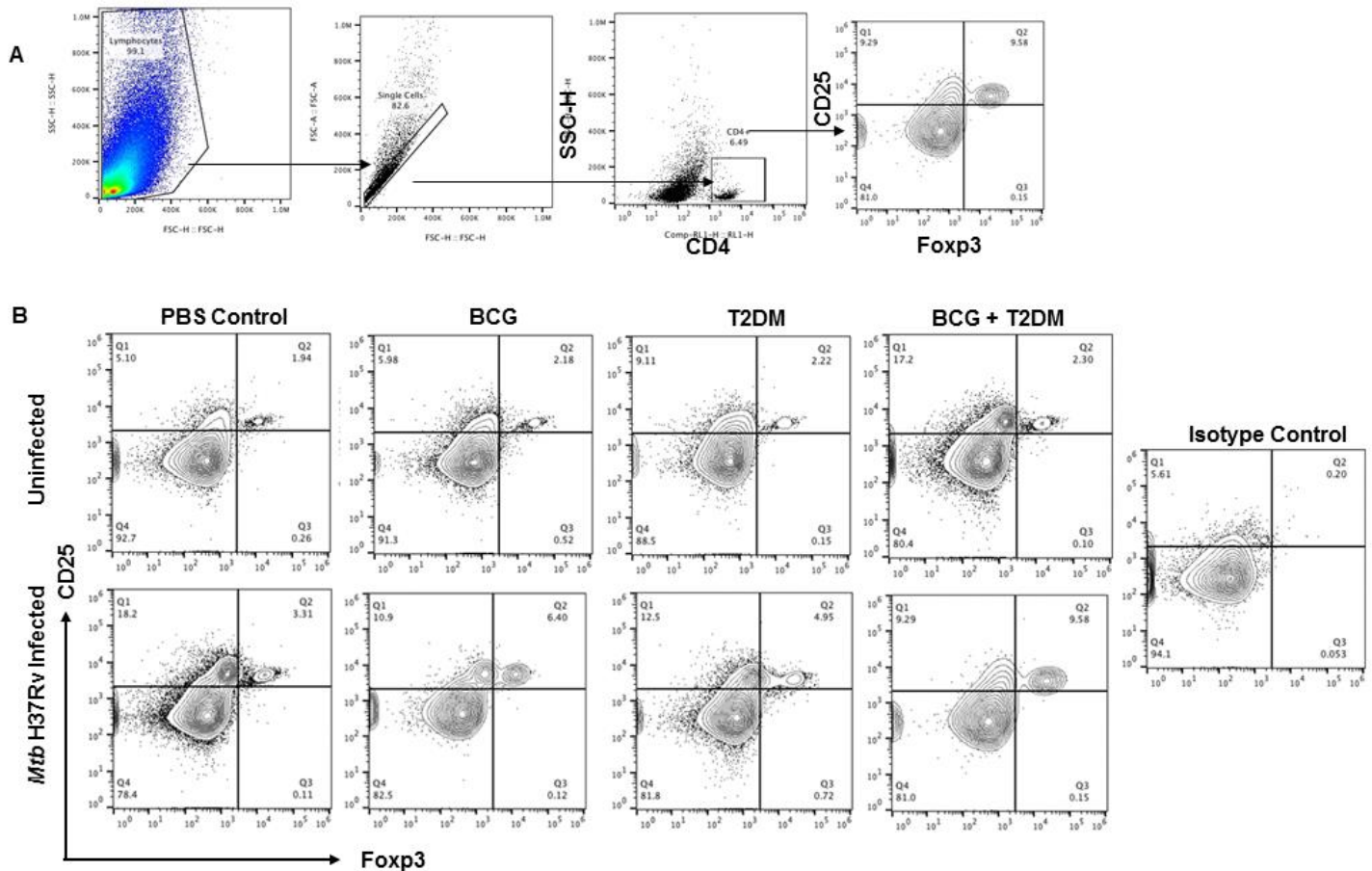


### Supplementary Fig. 5. Gating strategies to determine CD4+IL-17A+ cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry by surface staining followed by intracellular staining of IL-17A+ cells. (A-B) Representative gating strategies for CD4+IL-17A+ cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.



## Supplementary Figure 6

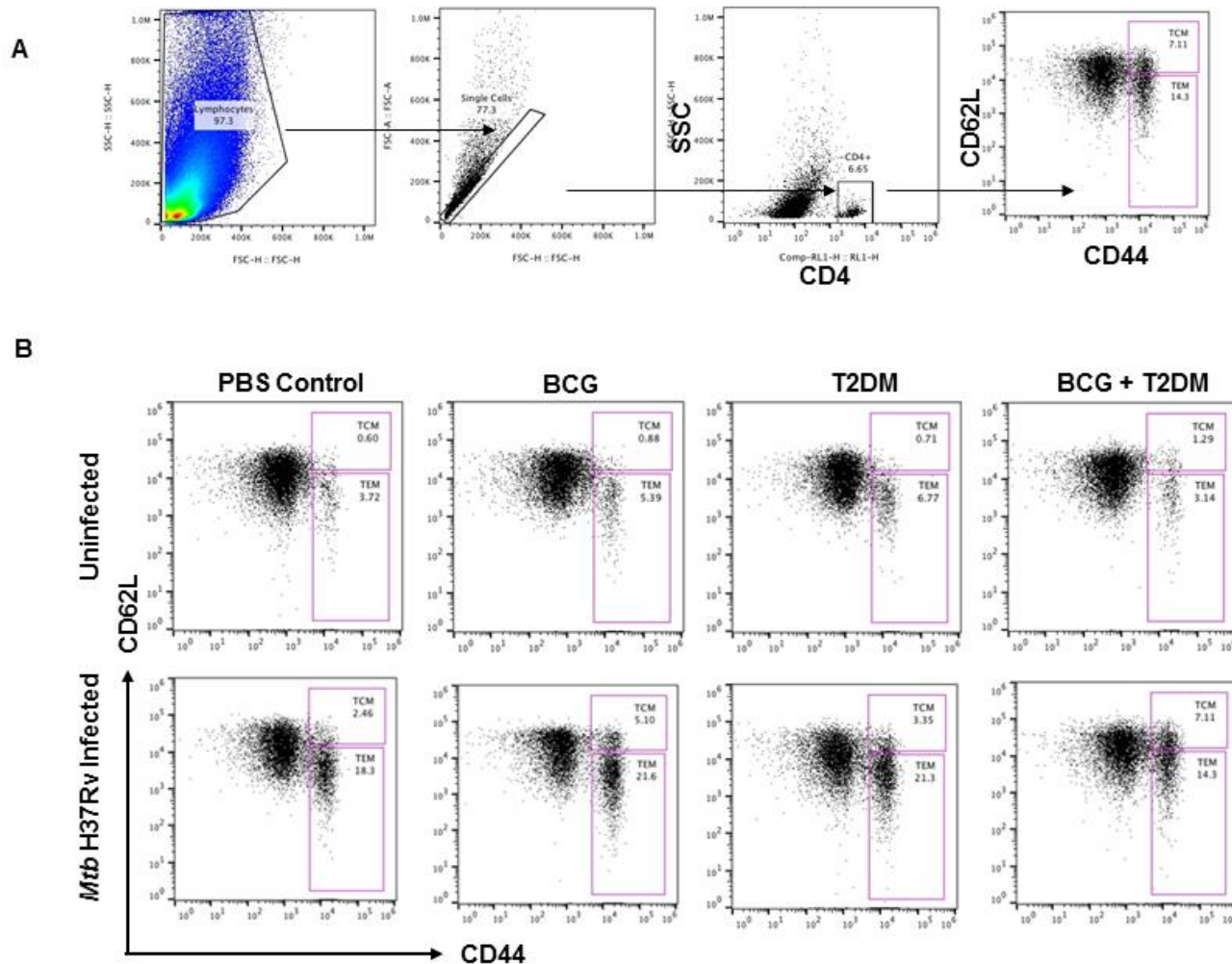


### Supplementary Fig. 6. Gating strategies to determine CD4+CD25+Foxp3+ T-regulatory cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry by surface staining (CD4+CD25+) followed by intracellular staining of Foxp3+ cells. (A-B) Representative gating strategies for CD4+CD25+Foxp3+ cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.



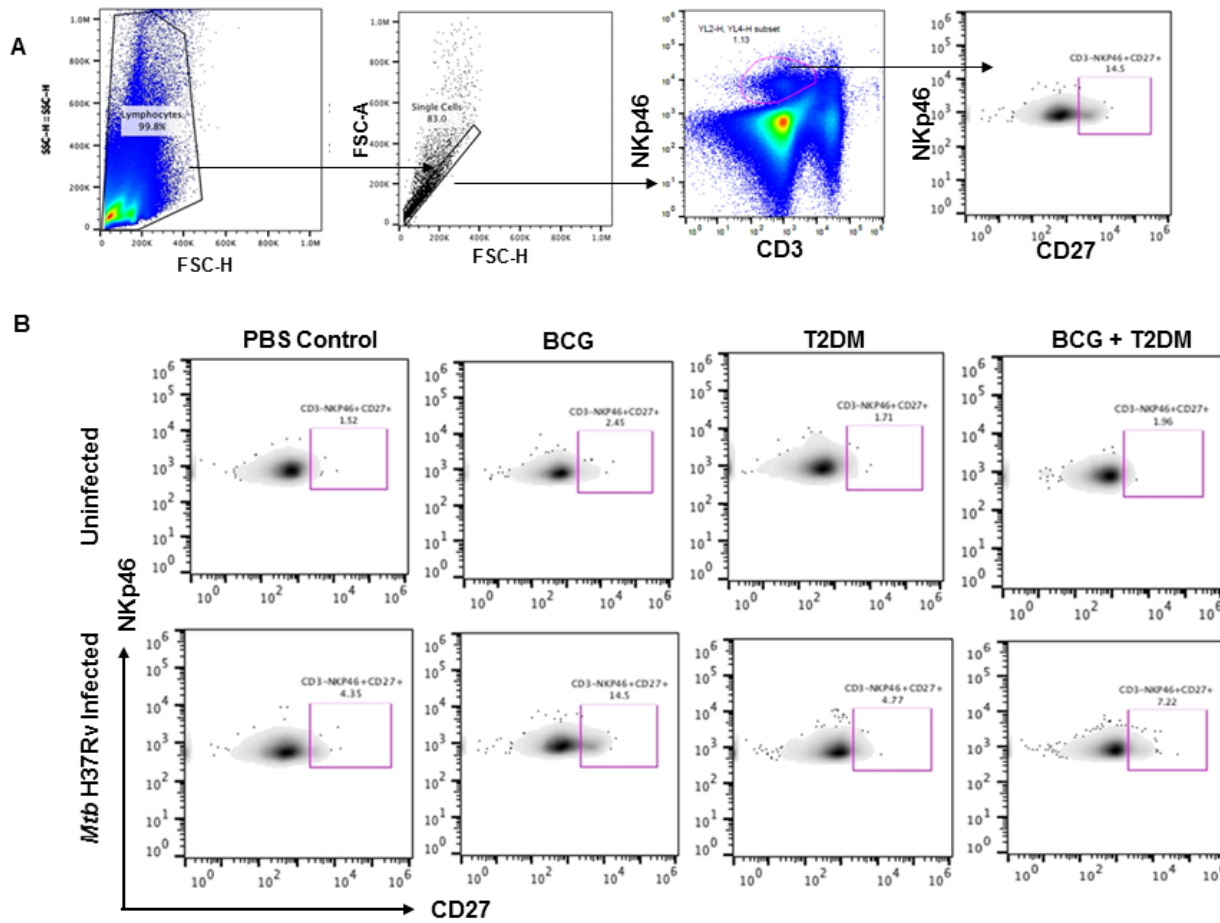
## Supplementary Figure 7



### Supplementary Fig. 7. Gating strategies to determine CD4+CD44+CD62L+ memory T cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry as described in the methods sections. (A-B) Representative gating strategies for CD4+CD44+CD62L+ cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.

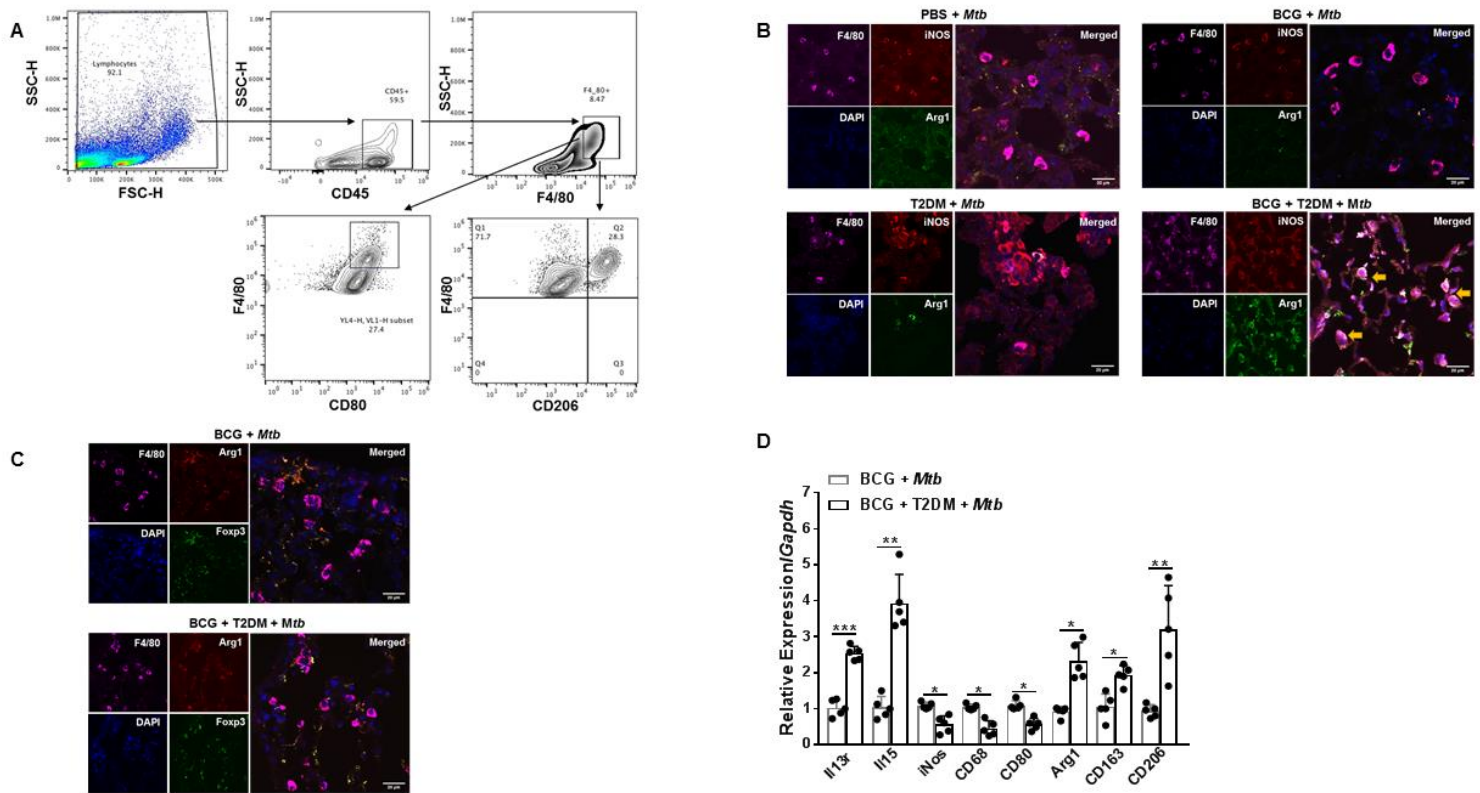
## Supplementary Figure 8



### Supplementary Fig. 8. Gating strategies to determine CD3-NKp46+CD27+ memory NK cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry as described in the methods sections. (A-B) Representative gating strategies for CD3-NKp46+CD27+ memory NK cells are shown for four months p.i. Experiments were performed using  $n=5$  mice per group.

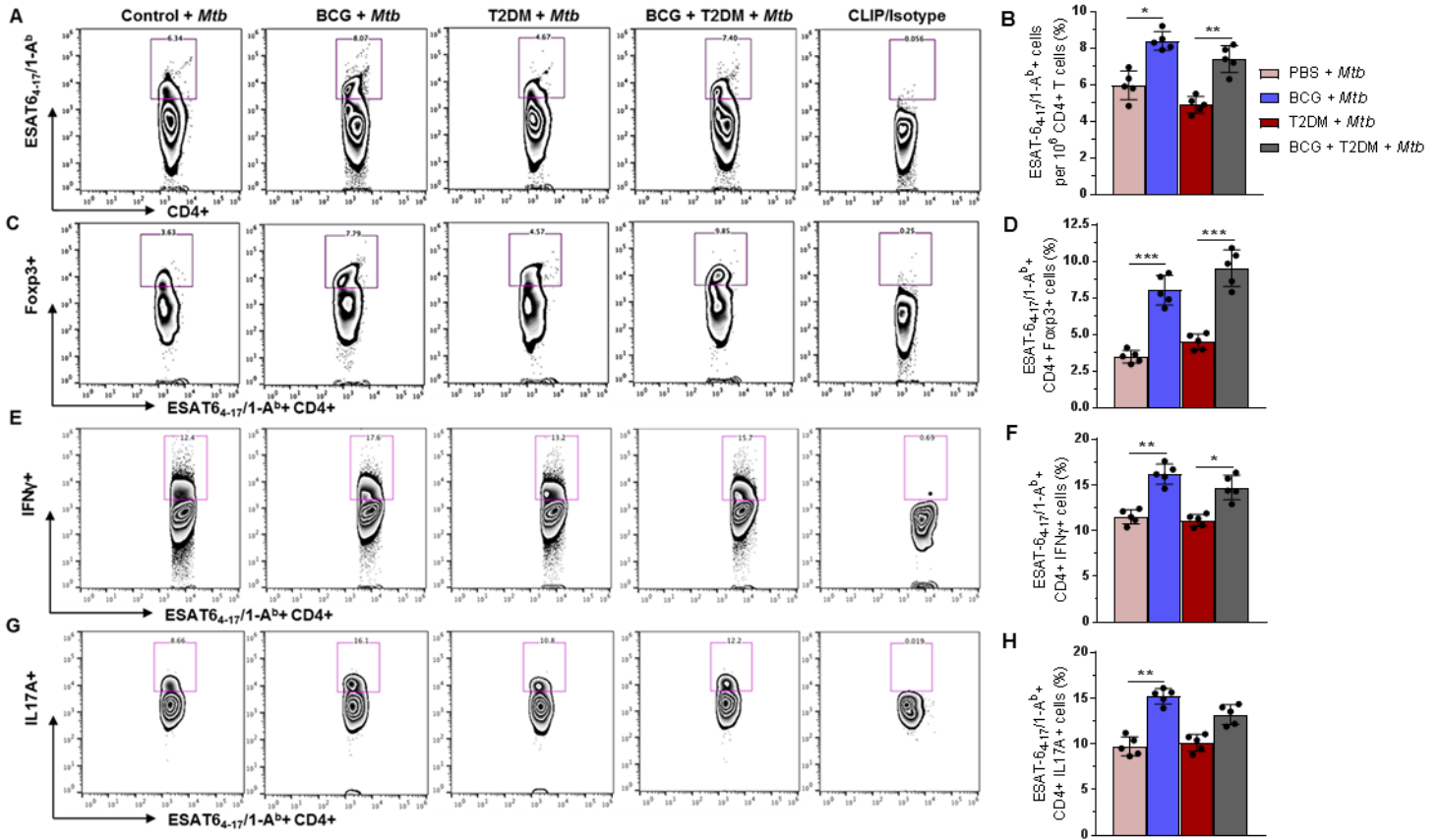
## Supplementary Figure 9



### Supplementary Fig. 9. BCG vaccination induces increased infiltration of T-regulatory cells and M2 macrophages in the lungs of *Mtb*-infected T2DM mice.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. **A**. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared for flow cytometry as described in the methods sections. **(A)** Representative gating strategies for CD45<sup>+</sup>F4/80<sup>+</sup>CD80<sup>+</sup> cells or CD45<sup>+</sup>F4/80<sup>+</sup>CD206<sup>+</sup> cells are shown for four months p.i. At four-months post-infection (p.i.), lungs from infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated and formalin fixed. Paraffin-embedded tissue sections were prepared and analyzed by confocal microscopy for **(B)** F4/80+iNOS+Arg1<sup>+</sup> cells and **(C)** F4/80+Foxp3+Arg1<sup>+</sup> cells. Representative images of staining patterns were taken from multiple fields at 63X with oil immersion. Scale bar: 20  $\mu$ m. **(D)** At 4 months p.i., total RNA from the lungs of BCG-vaccinated nondiabetic and BCG-vaccinated T2DM mice infected with *Mtb* were isolated, and cDNA was prepared. Quantitative real-time PCR analysis shows *IL-13R*, *IL-15*, *iNOS*, *CD68*, *CD80*, *Arg1*, *CD163* and *CD206* gene expression. Experiments were performed two times and each time 2 to 3 mice per group were used. For statistical analysis unpaired t test (two tailed) was performed. The data are shown as mean  $\pm$  SDs of  $n=5$  mice per group. \*,  $p<0.05$ ; \*\*,  $p<0.01$  and \*\*\*,  $p<0.001$ .

## Supplementary Figure 10

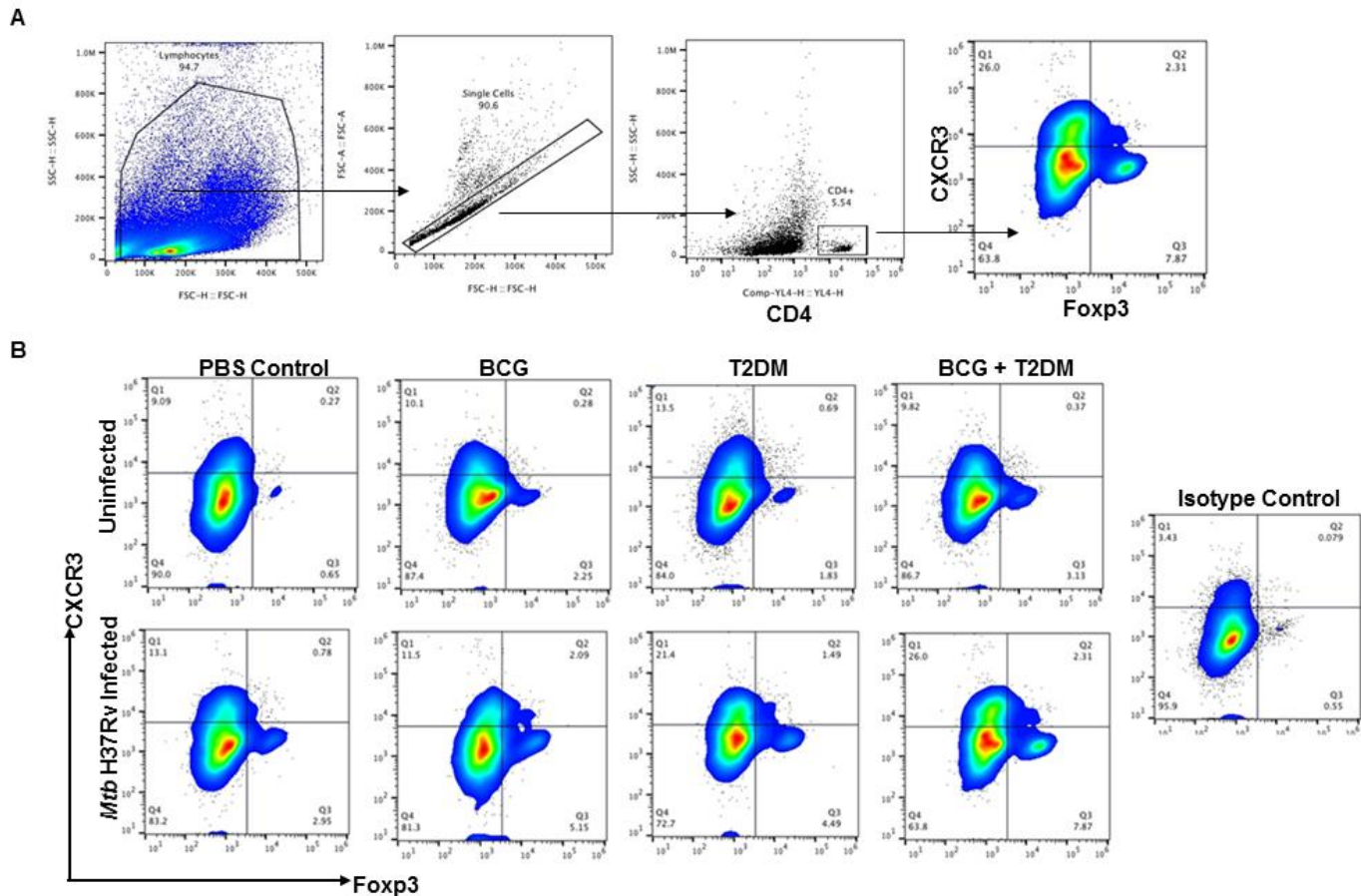


### Supplementary Fig. 10. Antigen-specific responses of BCG-vaccinated T2DM mice infected with *Mtb*.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with *Mtb* as described in Fig. 1. Four months after infection, lung cells were prepared as described in the methods section. **(A and B)** Percentage of tetramer<sup>+</sup> CD4<sup>+</sup> T cells in the lung and representative plots of ESAT-64-17/I-A<sup>b</sup>+ MHC II tetramer staining gated on CD4<sup>+</sup> T cells. **(C-D)** Percentage of tetramer<sup>+</sup> CD4<sup>+</sup> T and Fcγ3<sup>+</sup> cells in the lung and representative plots of Fcγ3 staining gated on tetramer<sup>+</sup> CD4<sup>+</sup> T cells. **(E-F)** Percentage of IFN-γ-producing tetramer<sup>+</sup> lung CD4<sup>+</sup> T cells and representative plots of IFN-γ staining gated on tetramer<sup>+</sup> lung CD4<sup>+</sup> T cells. **(G-H)** Percentage of IL-17A-producing tetramer<sup>+</sup> lung CD4<sup>+</sup> T cells and representative plots of IL-17A staining gated on tetramer<sup>+</sup> lung CD4<sup>+</sup> T cells. Experiments were performed two times and each time 2 to 3 mice per group were used. The data are shown as mean ± SDs of *n*=5 mice per group. The statistical analysis was performed by one-way ANOVA followed Tukey's multiple comparisons test. \*, *p*<0.05; \*\*, *p*<0.01 and \*\*\*, *p*<0.001.



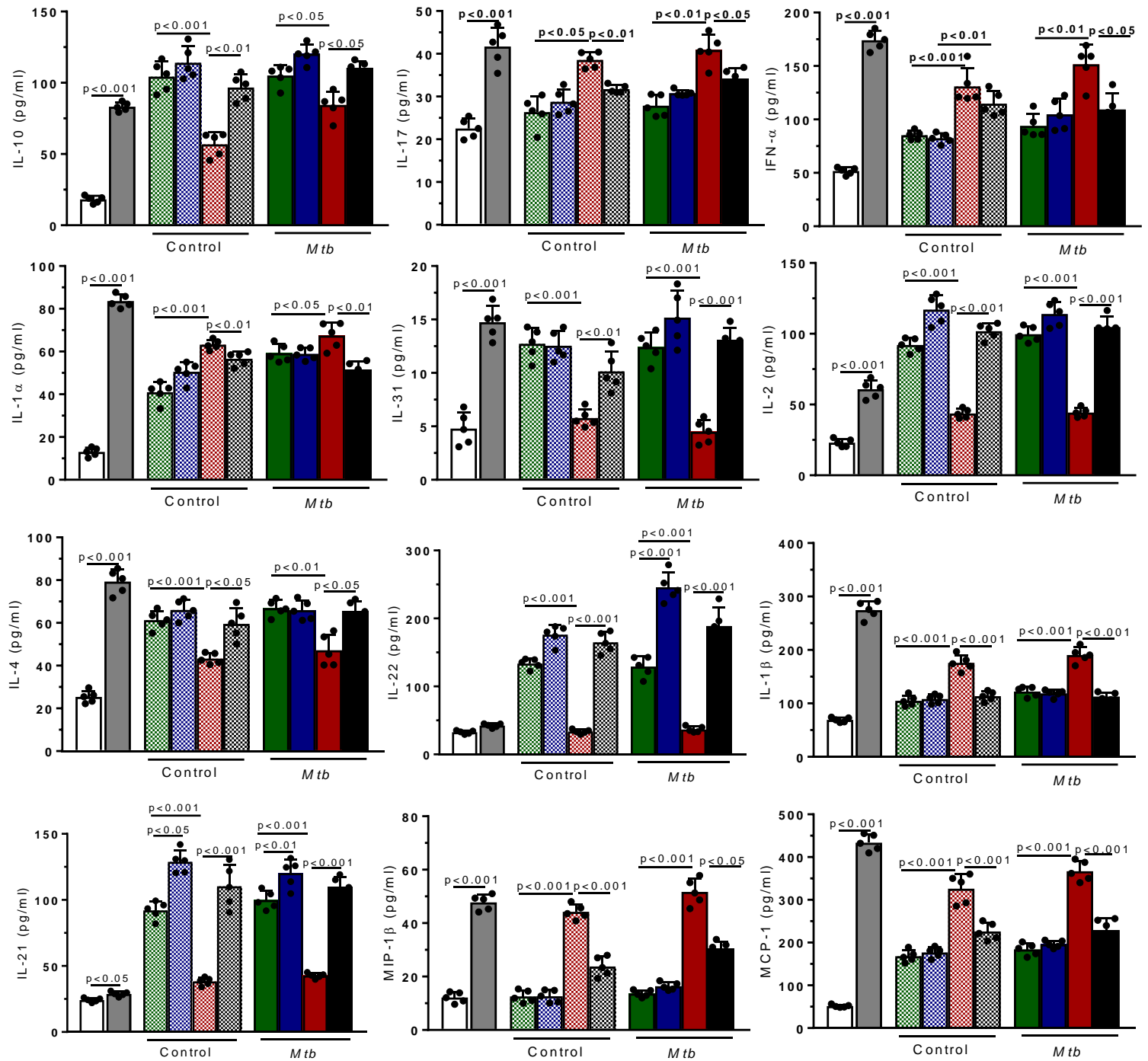
## Supplementary Figure 11

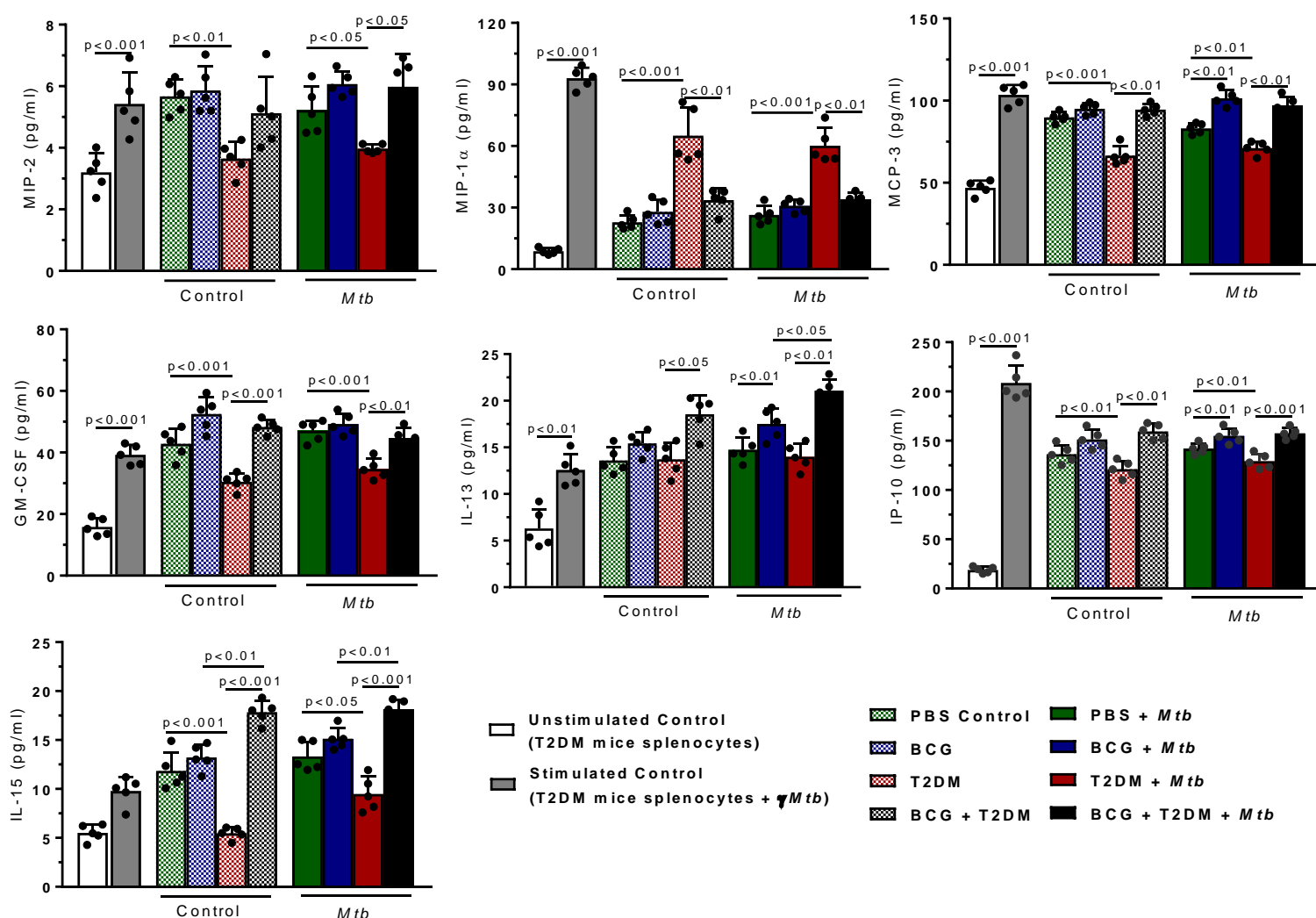


### Supplementary Fig. 11. Gating strategies to determine CD4+Foxp3+CXCR3+ T-regulatory cells in the lungs.

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. Lung cells were prepared as described in the methods section. Lung cells were gated on CD4+Foxp3+CXCR3+ cells. (A-B) Representative gating strategies for CD4+Foxp3+CXCR3+ cells are shown. Experiments were performed using  $n=5$  mice per group.

Supplementary Figure 12



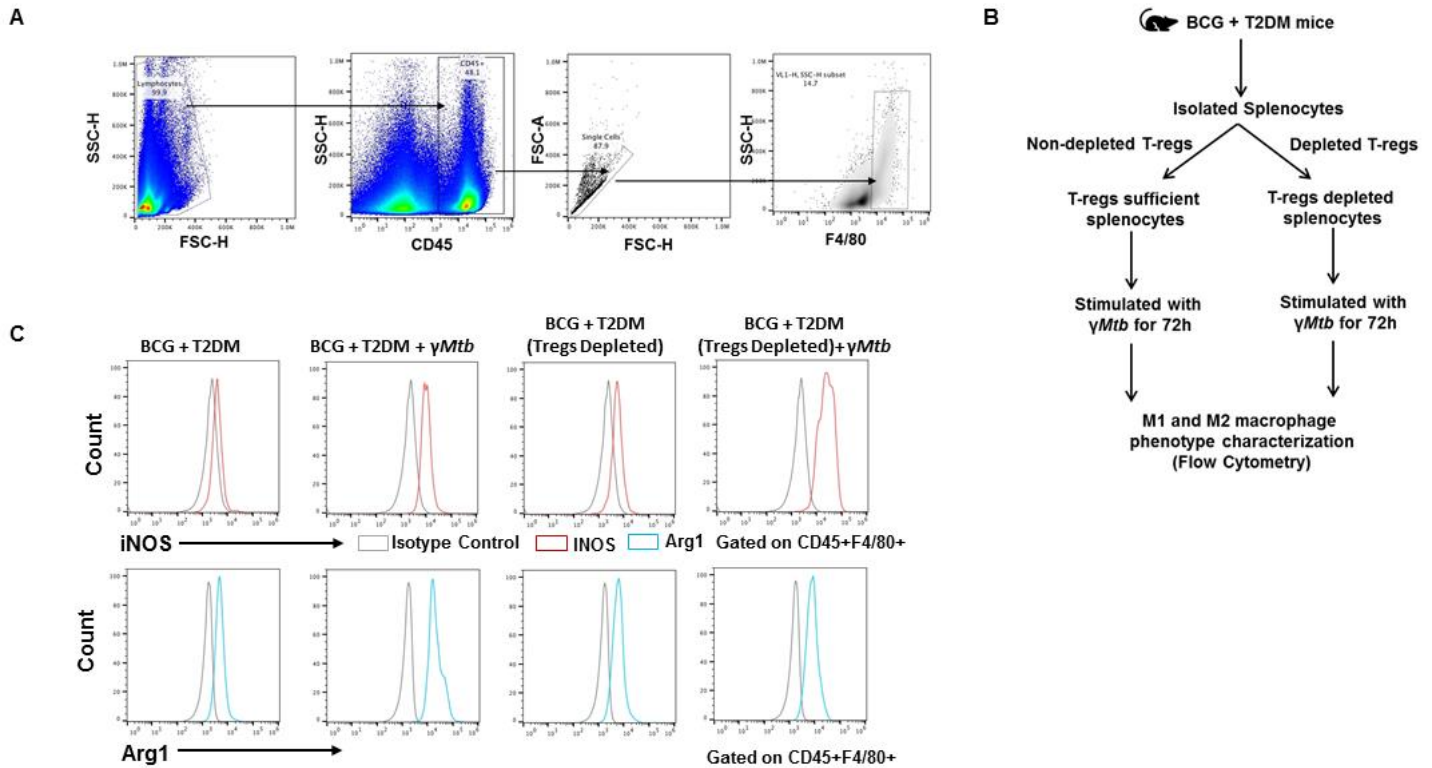


**Supplementary Fig. 12. T-regulatory cells from T2DM mice are less immunosuppressive.**

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. At 4 months p.i., T-regulatory cells were isolated from the lungs of PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice. T-regulatory cell-depleted splenocytes were isolated from *Mtb*-infected T2DM mice, labeled with CFSE and cultured with  $\gamma$ -irradiated *Mtb* H37Rv (10  $\mu$ g/ml) in the presence of T-regulatory cells from all the above groups of mice at a 1:1 ratio. After 72 h, supernatants were collected, and cytokines and chemokine levels were measured in a multiplex ELISA. Experiments were performed two times and each time 2 to 3 mice per group were used. The data are shown as mean  $\pm$  SDs of  $n=5$  mice per group. The statistical analysis was performed by one-way ANOVA followed Tukey's multiple comparisons test. \*,  $p<0.05$ ; \*\*,  $p<0.01$  and \*\*\*,  $p<0.001$ .



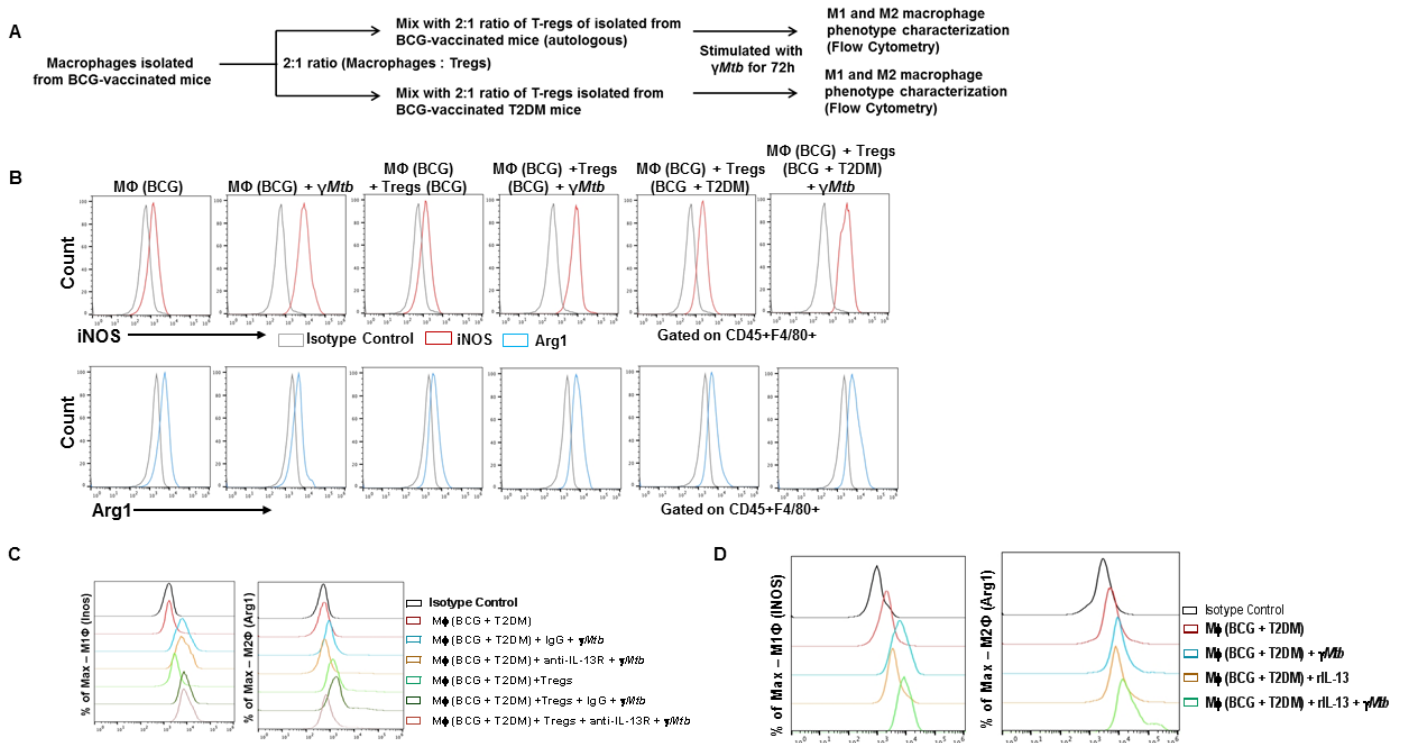
## Supplementary Figure 13



### Supplementary Fig. 13. Gating strategies for CD45+F4/80+iNOS+ or Arg1+ cells.

BCG-vaccinated or BCG-vaccinated T2DM mouse lungs or splenocytes were isolated. Cells were prepared as described in the methods section and stained for CD45+F4/80+iNOS+ or CD45+F4/80+Arg1+ cells. **(A)** A representative gating strategy is shown. **(B)** A schematic representation of the isolation of splenocytes from BCG-vaccinated T2DM mice, depletion of T-regulatory cells and stimulation with  $\gamma$ -irradiated *Mtb* is shown. **(C)** BCG-vaccinated T2DM mouse splenocytes were isolated and cultured in 12-well plates at  $1 \times 10^6$  cells/well in RPMI-1640 containing penicillin (Life Technologies) and 10% heat-inactivated FCS, with or without  $\gamma$ -irradiated *Mtb* (10  $\mu$ g/ml) at 37°C and 5% CO<sub>2</sub>. In some wells, T reg-depleted splenocytes were stimulated with  $\gamma$ -irradiated *Mtb* (10  $\mu$ g/ml). After 72 h, the cells were collected and phenotypically characterized for M1/M2 macrophages. Experiments were performed using  $n=5$  mice per group.

## Supplementary Figure 14



### Supplementary Fig. 14. *T-regulatory cells from BCG-vaccinated T2DM mice suppress inflammation through IL-13R signaling.*

**(A)** Macrophages isolated from BCG-vaccinated mice were cocultured with autologous T-regulatory cells or T-regulatory cells isolated from BCG-vaccinated T2DM mice and stimulated with  $\gamma$ -irradiated *Mtb* (10  $\mu$ g/ml). After 72 h of incubation, the macrophages were analyzed for M1 and M2 phenotypes by flow cytometry. **(B)** Representative histogram showing the CD45+F4/80+iNos<sup>+</sup> cells and CD45+F4/80+Arg1<sup>+</sup> cells. **(C)** For neutralization studies, BCG-vaccinated T2DM mouse macrophages were stimulated with  $\gamma$ -irradiated *Mtb* (10  $\mu$ g/ml) with or without autologous T-regulatory cells, and in some wells, IgG control or IL-13R (10  $\mu$ g/ml) antibodies were added. After 72 h of incubation, the M1 and M2 phenotypes of cultured macrophages were determined by flow cytometry. **(C)** Recombinant IL-13 (10 ng/ml) was added to the macrophages from BCG-vaccinated T2DM mice and stimulated with  $\gamma$ -irradiated *Mtb* (10  $\mu$ g/ml). After 72 h of incubation, the M1 and M2 phenotypes of cultured macrophages were determined by flow cytometry, and representative histogram plots for CD45+F4/80+iNos<sup>+</sup> cells and CD45+F4/80+Arg1<sup>+</sup> cells are shown. Experiments were performed using  $n=5$  mice per group.

**Supplemental Table 1: Leukocyte populations in the lungs of control and *Mtb*-infected mice.**

	Months	PBS Control	BCG	T2DM	BCG + T2DM	PBS + <i>Mtb</i>	BCG + <i>Mtb</i>	T2DM + <i>Mtb</i>	BCG + T2DM + <i>Mtb</i>
CD3+ Cells	1	21850 ± 305	24998 ± 1547	28949 ± 495	36149 ± 275	96301 ± 6144	117244 ± 3681	146425 ± 6251	182733 ± 3484 @#
	4	25171 ± 296	26202 ± 554	25081 ± 401	24718 ± 769	87711 ± 2535	106926 ± 2329	121147 ± 2424	110609 ± 5045 *@
CD4+ Cells	1	11422 ± 480	11835 ± 435	15515 ± 680	18392 ± 543	34461 ± 1531	50158 ± 1662	85198 ± 4665	92424 ± 2349 *@#
	4	16388 ± 575	17094 ± 545	32078 ± 682	23599 ± 1364	45577 ± 1591	48213 ± 1023	66198 ± 1379	53660 ± 1073 *@
Ly6G+ Neutrophils	1	2450 ± 74	2778 ± 135	6717 ± 120	9877 ± 435	102527 ± 6473	98521 ± 1491	86414 ± 992	91860 ± 1615
	4	2029 ± 102	2250 ± 64	5609 ± 312	4389 ± 65	58527 ± 1059	60021 ± 2003	79425 ± 2060	66360 ± 2386 @\$
CD3-NK1.1+	1	907 ± 28	1171 ± 29	902 ± 17	1127 ± 79	3438 ± 126	7701 ± 157	3510 ± 62	5279 ± 347 *#\$
	4	611 ± 13	1027 ± 70	789 ± 64	910 ± 53	3286 ± 101	7167 ± 117	3779 ± 218	5622 ± 290 *@#\$
CD11b+	1	8514 ± 499	9072 ± 61	10679 ± 339	11019 ± 427	16609 ± 912	18370 ± 1012	20901 ± 901	27101 ± 1009 @#\$
	4	9766 ± 1751	10486 ± 568	13185 ± 1161	12294 ± 1060	16136 ± 1588	19889 ± 1435	22096 ± 2072	21022 ± 2325 *@
CD11c+	1	10027 ± 135	10782 ± 395	11907 ± 611	15037 ± 321	60520 ± 1679	69302 ± 1109	76819 ± 1600	81099 ± 1091 *@#\$
	4	11110 ± 1865	11966 ± 1402	12465 ± 889	12514 ± 1838	54806 ± 1321	64848 ± 4694	91347 ± 5841	73174 ± 3150 *@#\$
CD11c+F4/80+	1	3591 ± 31	3552 ± 301	5460 ± 221	5581 ± 37	8757 ± 484	9519 ± 79	15090 ± 509	14031 ± 429 @#\$
	4	3214 ± 150	3276 ± 158	5213 ± 174	4538 ± 76	7530 ± 315	8236 ± 220	12941 ± 2414	11056 ± 2091 @
B220+Igm+	1	13066 ± 491	14343 ± 1109	16975 ± 765	17663 ± 620	19248 ± 524	22912 ± 1400	21057 ± 966	21488 ± 1605 *
	4	11873 ± 659	13626 ± 552	17982 ± 544	15357 ± 325	17076 ± 391	20481 ± 879	20684 ± 1715	20465 ± 767 *@

**Supplementary Table 1. Leukocyte populations in the lungs of control and *Mtb*-infected mice.**

PBS control, BCG-vaccinated, T2DM or BCG-vaccinated T2DM mice were infected with ~100 CFU of aerosolized *Mtb* H37Rv. A. At one and 4 months p.i., the lungs from PBS control, BCG-vaccinated control, T2DM, BCG-vaccinated T2DM, infected control, infected T2DM, infected BCG-vaccinated control and infected BCG-vaccinated T2DM mice were isolated. The absolute numbers and frequencies of various leukocytes per 10<sup>6</sup> total lung cell populations were determined by flow cytometry. Experiments were performed two times and each time 2 to 3 mice per group were used. The data are shown as mean ± SEM of *n*=5 mice per group. Statistical analysis was performed by one-way ANOVA followed Tukey's multiple comparisons test with, *p*<0.05 was considered significant. Comparisons between the groups as follows,

\* PBS + *Mtb* vs. BCG + *Mtb*;

@ PBS + *Mtb* vs. T2DM + *Mtb*;

# BCG + *Mtb* vs. BCG + T2DM + *Mtb*;

\$ T2DM + *Mtb* vs. BCG+ T2DM + *Mtb*.

**Supplemental Table 2. List of primers used for the qRT-PCR analysis in this study**

Gene Name	Mouse Primer Sequences (5'...3')	
	Forward	Reverse
<i>Bcl2</i>	CATGTGTGTGGAGAGCGTCA	GCATGCTGGGGCCATATAGT
<i>klrg1</i>	ACATTTCCGGACAACCAGGG	TGTTCTCAAGCCGATCCAG
<i>Itgae</i>	GAGCAAAACCAAGCCTCAGC	AGGAGAAACAGTCGGAAGGAAA
<i>Stat3</i>	CGTGGAGCTGTTCAAGAACTT	AACTGGACACCAGTCTTGATGA
<i>Tbet</i>	TCAACCAGCACCAGACAGAG	AAACATCCTGTAATGGCTTGTG
<i>Roryt</i>	TTCACCCACCTCCACTG	TGCAAGGGATCACTTCAATTT
<i>Irf4</i>	ACCCCATGACAGCACCTTAT	GGGTGGCATCATGTAGTTATGA
<i>Gata3</i>	CATTACCACCTATCCGCCCTATG	CACACACTCCCTGCCTTCTGT
<i>Tnfrsf18</i>	GTTTGGCTTCCGGTGTGTTG	TTCTCTGGTGGTCACTGCAA
<i>Gzmb</i>	GAAGCCAGGAGATGTGTGCT	GCACGTTTGGTCTTTGGGTC
<i>Il10</i>	GCTCTTGCACTACCAAAGCC	CTGCTGATCCTCATGCCAGT
<i>Lag3</i>	TGGCTGAAAAGAGTGGAAT	TGCTACAGGTGTAGGTCCCA
<i>Tgfb1</i>	CATGGAGCTGGTGAAACGGA	GGCGAGCCTTAGTTTGGACA
<i>Ctla4</i>	ATCCTGGAAACAACTGGATCA	TGGGCTTCAGATAACGGCTG
<i>Pd1</i>	CAGACTGAAAAACAGGCCGC	GTATGATCTGGAAGCGGGCA
<i>Bcl6</i>	GAACCACGATCCGCACTAT	CGTGCCGGGTAACTGGATA
<i>Foxp3</i>	AGAGGTATTGAGGGTGGGTGT	TTTCTTCTGTCTGGAGTGGC
<i>Cxcr3</i>	GCAACTGTGGTCGAGAAAGC	GGCATAGAGCAGCGGATTGA
<i>Il18</i>	GCCTCAAACCTTCCAAATCA	TGGATCCATTTCTCAAAGG
<i>Il13</i>	CCTGGCTCTTGCTTGCCTT	GGTCTTGTGTGATGTTGCTCA
<i>Cxcr5</i>	ACTGGCCTTCTACAGTAACAGC	CAGCACCAGGATGTTTCCCA
<i>Cxcr6</i>	GAGTGGGTCTTTGGCACAGT	CGATCCACTGTGATGCAGGT
<i>Il2ra</i>	AACACCACCGATTCTGGCT	CGTTAGGTGAATGCTTGGCG
<i>Tnfrsf1b</i>	GCATCTGTAGCATCCTGGCT	GTGGGCTCTGGCTGAGATAC

<i>Ccr7</i>	TGTGATTTCTACAGCCCCCAG	TGACAAGGAGAGCCACCACC
<i>Ido</i>	GATGCTGGGACATTCCTTCAGT	GAACATCGTCATCCCCTCGG
<i>Tnfrsf9</i>	TGGTGAGCTTCTCTCCCAGTA	TAAGGACCTGCAAGGAGTGC
<i>Ox40</i>	ACAAGTGCTGTCGTGAGTGC	CAAGGTGGGTGGAGAGGGCAA
<i>Il13r</i>	GAATTTGAGCGTCTCTGTCGAA	GGTTATGCCAAATGCACTTGAG
<i>Il15</i>	CTCTGTTGACAAGCAATGAGACG	TCTTCAGTATGTCTAGCCCCTG
<i>Inos</i>	GCAGAAATGTGACCATCATGG	ACAACCTTGGTGTTGAAGGC
<i>Arg1</i>	GGAATCTGCATGGGCAACCTGTGT	AGGGTCTACGTCTCGCAAGCCA
<i>CD68</i>	TTGCTAGGACCGCTTATAG	AAGGATGGCAGGAGAGTA
<i>CD163</i>	AAGCATTACTGTCATCATAG	CTCCACCTACAAGTCTAA
<i>CD206</i>	ATCCACTCTATCCACCTTCA	TGCTTGTTCATATCTGTCTTCA
<i>F4/80</i>	AAGCATCCGAGACACACACAGTCT	TGACTGTACCCACATGGCTGATGA
<i>CD80</i>	CTAGTTTCTCTTTTTCAGGTTGTGA	GTATGTGCCCCGGTCTGAAA
<i>Gapdh</i>	AGGTCGGTGAACGGATTTG	TGTAGACCATGTAGTTGAGGTCA
<i><math>\beta</math>actin</i>	TTACAGGAAGTCCCTCACCC	ACACAGAAGCAATGCTGTCAC