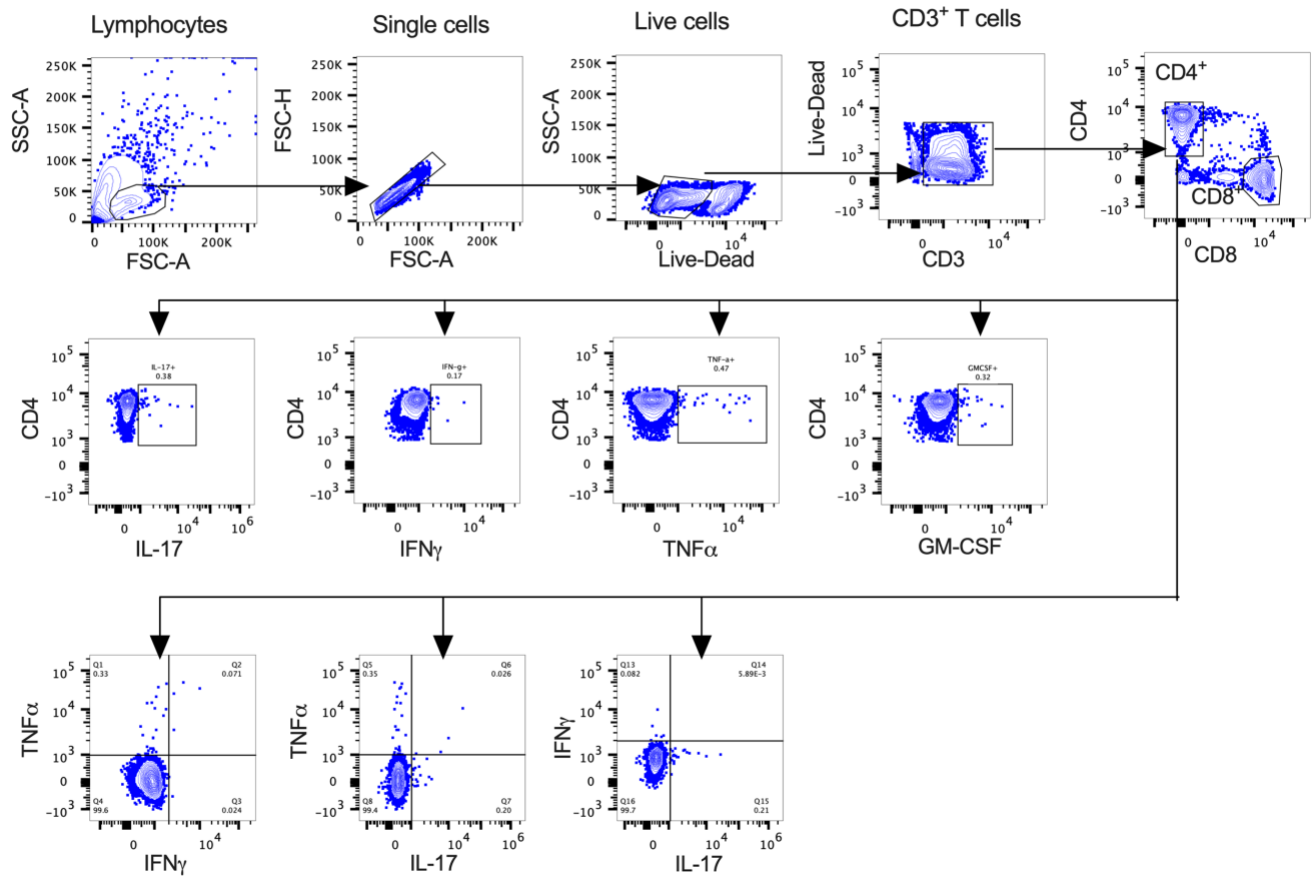
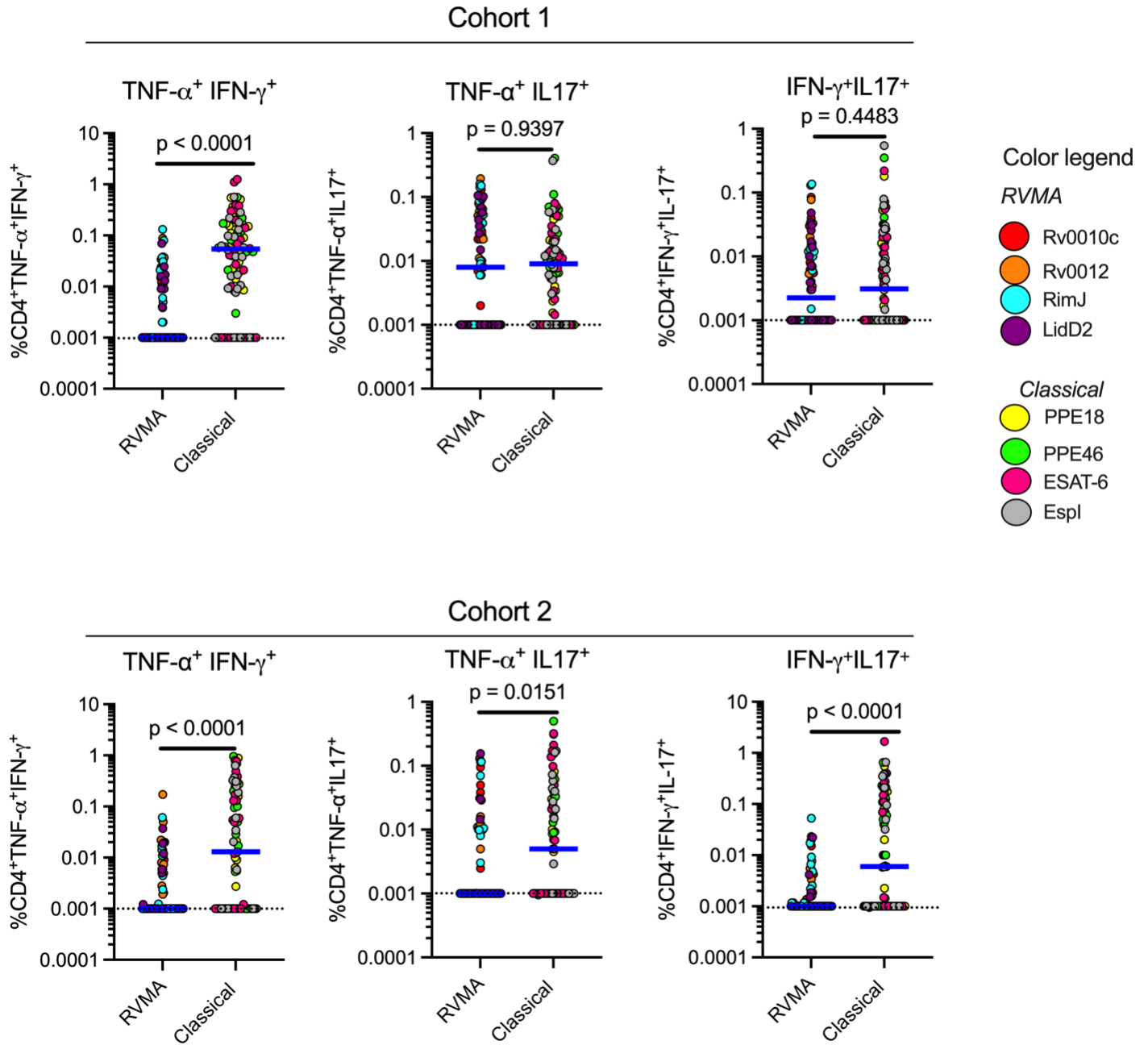


Supplementary figure 1:



Supplementary figure 2:



Supplemental Table 1. Demographic and clinical characteristics of study cohorts

Characteristic	Cohort 1	Cohort 2	p*
Age, Median (Interquartile range), Y	31.5 (20, 49.5)	32.9 (26.7, 38.6)	0.6613
Sex, n (%)			
Male	15 (42%)	24 (56%)	p = 0.2611, Fisher's exact test)
Female	21 (58%)	19 (44%)	
BMI; Median (Interquartile range)	21.95 (20.18, 26.58)	21.80 (19.8, 24.7)	0.8852
HbA1c, %; Median (Interquartile range)	5.5 (5.2, 5.7)	5.3 (5, 6.1)	0.7467
QFT Results, IU/mL; Median (Interquartile range)			
TB antigen minus Nil	9.03 (1.95, 10)	5.56 (2.2, 8.23)	0.0183
Mitogen minus Nil	5.19 (2.09, 9.46)	8.78 (7.75, 9.72)	0.0011

*p = Absolute p, Mann-Whitney unless otherwise specified.

Supplemental Table 2. Cohort 2: Frequencies of CD4 T cell cytokine responses, by individual antigens

	RVMA				Classical			
	Rv0010c n=17	Rv0012 n=24	RimJ n=29	LldD2 n=13	PPE18 n=21	PPE46 n=17	ESAT-6 n=21	EspI n=14
TNF	29	58	52	15	52	71	86	86
IFN γ	35	58	55	38	71	82	86	93
IL-17	59	58	62	54	67	88	86	86
GM-CSF	59	79	45	62	57	82	71	79

The values shown reflect the percent of participants whose samples yielded detectable responses, defined as >0.001% of CD4 T cells after stimulation with the indicated antigens.

Supplemental Table 3. Cohort 2: Frequencies of responders: individual cytokines vs antigen class

	Median % (interquartile range) n = 4 antigens per category		Absolute p (Mann-Whitney)
	RVMA	Classical	
TNF	40 (19, 56)	78 (57, 85)	0.0571
IFN γ	51 (38, 57)	84 (74, 90)	0.0286
IL-17	58 (54, 61)	85 (71, 87)	0.0286
GM-CSF	60 (48, 75)	74 (61, 78)	0.6857

Supplemental Table 4. Cohort 2: Magnitudes of individual cytokine responses (% of CD4 T cells) vs antigen class

	Median % (interquartile range) n = 4 antigens per category		Absolute p (Mann-Whitney)
	RVMA	Classical	
TNF	0.001 (0.001, 0.12)	0.35 (0.001, 0.8)	<0.0001
IFN γ	0.001 (0.001, 0.06)	0.3(0.05, 0.72)	<0.0001
IL-17	0.04 (0.001, 0.24)	0.29 (0.09, 0.66)	<0.0001
GM-CSF	0.03 (0.001, 0.22)	0.13 (0.001, 0.32)	0.0662

Values shown for each cytokine and each antigen are median % of all CD4 T cells that express the specified cytokine. For statistical analyses, assays that yielded undetectable levels of the stated cytokine were assigned a value of 0.001%.

Supplemental Table 5. Cohort 2: IL-17 vs IFN γ responses to individual RVMA

	Response Frequencies (% of participants with detectable cytokine ⁺ CD4 T cells)		Response Magnitudes (% of CD4 T cells that are cytokine ⁺) Median (interquartile range)		p*
	IL-17	IFN γ	IL-17	IFN γ	
Rv0010c	58	35	0.02 (0.001, 0.115)	0.001 (0.001, 0.047)	0.2437
Rv0012	58	58	0.07 (0.001, 0.385)	0.012 (0.001, 0.0775)	0.0054
RimJ	62	55	0.06 (0.001, 0.32)	0.01 (0.001, 0.087)	0.2157
LldD2	63	46	0.03 (0.001, 0.255)	0.001 (0.001,0.0305)	0.0391

*p values for the comparison of IL-17 vs IFN γ magnitudes (Wilcoxon matched pairs)