

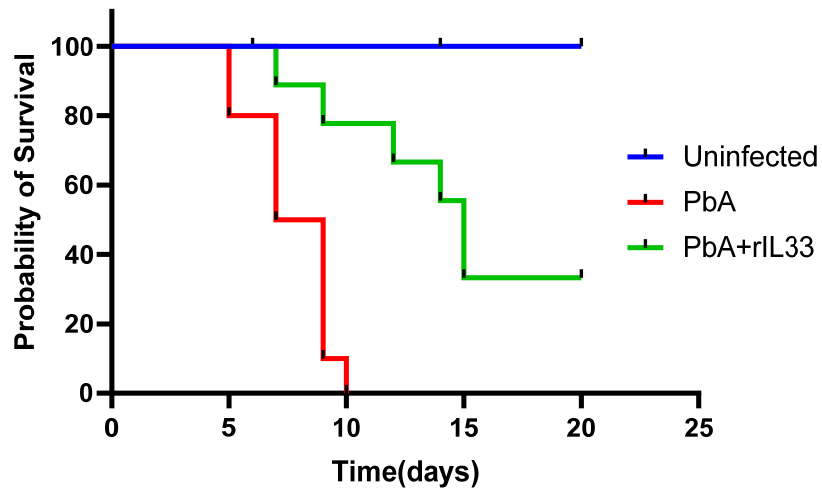


Figure S1: The Kaplan-Meier Survivability curve shows increased survival rate in mice treated that were infected with PbA and treated with rIL-33 as compared to PbA infected mice treated with PBS. The PbA mice group showed 90% mortality with 8th and 100% mortality within 13th day where as significant increase in survivability is shown in PbA+rIL33 group.

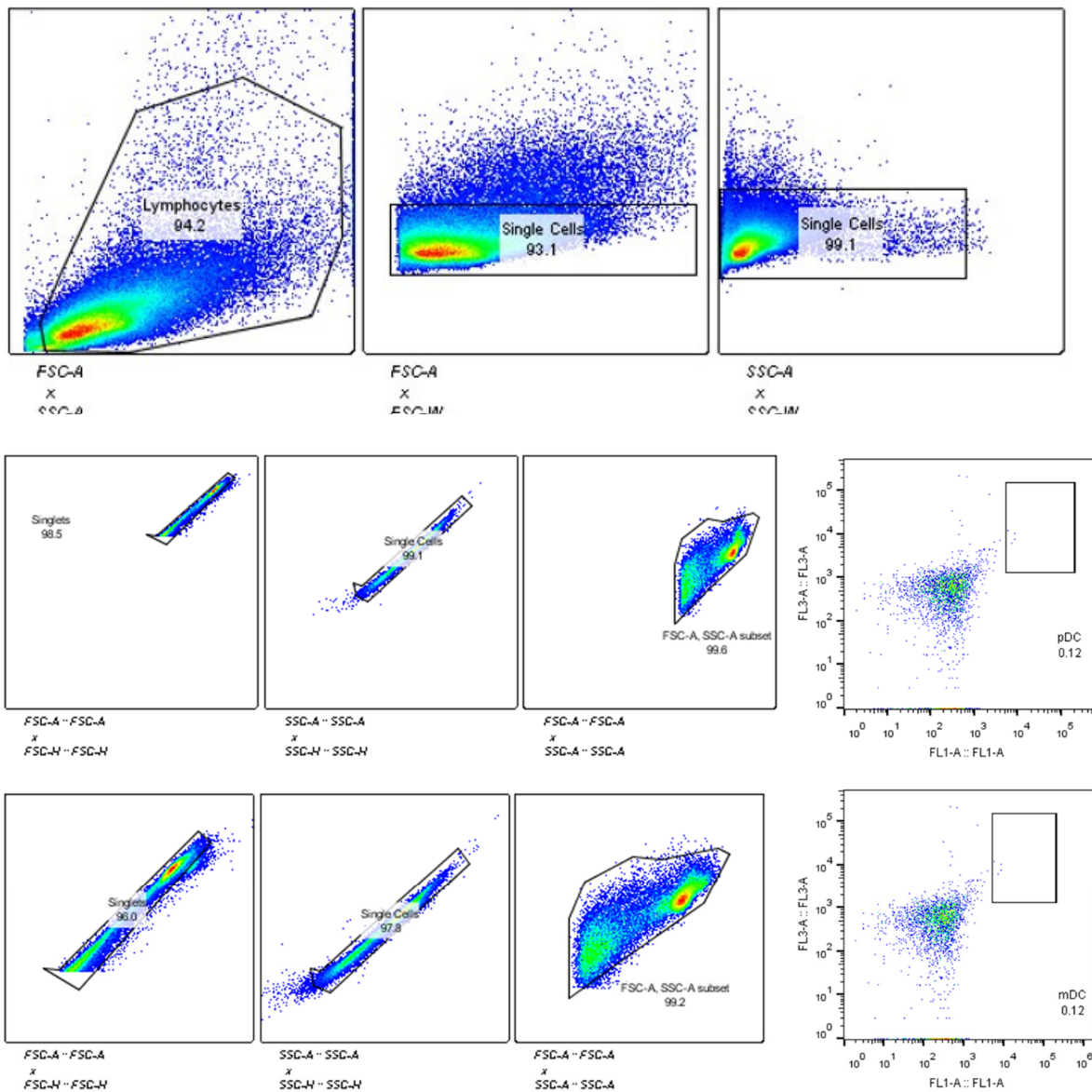


Figure S2: Gating strategies of MDSCs , pDC and mDCs.

Serial Number	Name of Antibody	Fluorescent tag	Name of company	Lot No.
1.	CD11b	PerCP-Cy5.5	BioLegend	B283049
2.	F4/80	APC	Miltenyi Biotech	5170608220
3.	Gr-1	V450	BD-Horizon	2223884
4.	Gr-1	FITC	BioLegend	B271251
5.	MDSC Flow cocktail 2		BioLegend	B260782
6.	CD11c	FITC	BD Pharmigen	61713
7.	B220	PerCP	Miltenyi Biotech	5170608224
8.	CD40	FITC	BD-Pharmigen	20391
9.	CD80	PE	BioLegend	B181610
10.	CD86	PE	BioLegend	B136226
11.	CD124	PE	BioLegend	B245608
12.	IA/IE	FITC	BioLegend	B179313
13.	CD4	PerCP-Cy5.5	BioLegend	B276680
14.	IL-17A	APC	Miltenyi Biotech	5190201304
15.	ROR γ T	APC	BioLegend	5190116029
16.	pSTAT3 (Tyr705)	Alexa Fluor 488	BioLegend	B229258
17.	FOXP3	APC	Miltenyi Biotech	5190116439
18.	CD25	FITC	Miltenyi Biotech	5190110375
19.	IL-12	PE	BD Pharmigen	20152

Table S1: List of antibodies used in flowcytometry experiments with their sources mentioned.

Panel	V450	FITC	PE	PERCP Cy5.5	APC
1		CD11c	IL-12	B220	CD8
2	GR-1	CD11c	IL-12	CD11b	CD8
3	GR-1	CD40	CD80	CD11b	CD11c
4		GR-1	CD86	CD11b	CD11c
5	GR-1	IA/IE	CD206	CD11b	CD11c
6		GR-1	CD124	CD11b	
7		CD25	IL-17	CD4	FOXP3

Table S2: Panels for combination of antibodies in multiple staining for flow cytometry

Names of Reagent/ Materials	Manufacturer	Catalog No.
Phosphate Buffered Saline	HIMEDIA	M1452
Cell Strainer	HIMEDIA	TCP025-1X50NO
Fetal Bovine Serum	GIBCO	11550356
Recombinant Mouse IL-33	GIBCO	PMC4044
RPMI Medium 1640	GIBCO	31800-022
Antibiotic Antimycotic Solution	HIMEDIA	A002A-20ML
L-Glutamine 200mM	HIMEDIA	TCL012-20ML
L-Lactic Acid/Lactate (LA) Colorimetric Assay Kit 96 WELLS	ABBKINE	ABK1012Q09
Glycolysis AssayKit (Extracellular Acidificatiion)	ABCAM	AB197244
Lipopolysaccharides from E.coli	SIGMA-ALDRICH	L5543
Intracellular Staining Permeabilization Wash Buffer (10X)	BioLegend	421002

Table S3: List of Reagents and Materials used for various experiments.

ACK buffer treatment

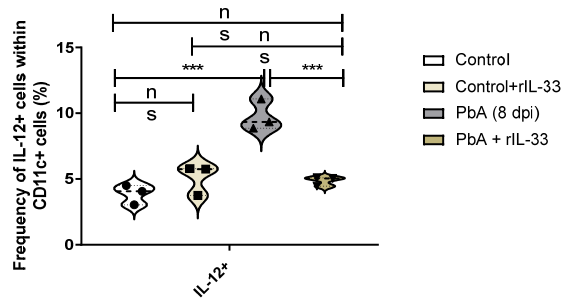
The composition of the ACK buffer was 10 mM potassium bicarbonate, 97.3 μ M EDTA tetrasodium salt, and 154.4 mM ammonium chloride. This is equivalent to 1. L of ultrapure water containing 8.26 g of ammonium chloride, 1.0 g of potassium bicarbonate, and 0.037 g of EDTA. Before used, this solution needs to be sterile filtered.

Similar compositions have been used in other studies like

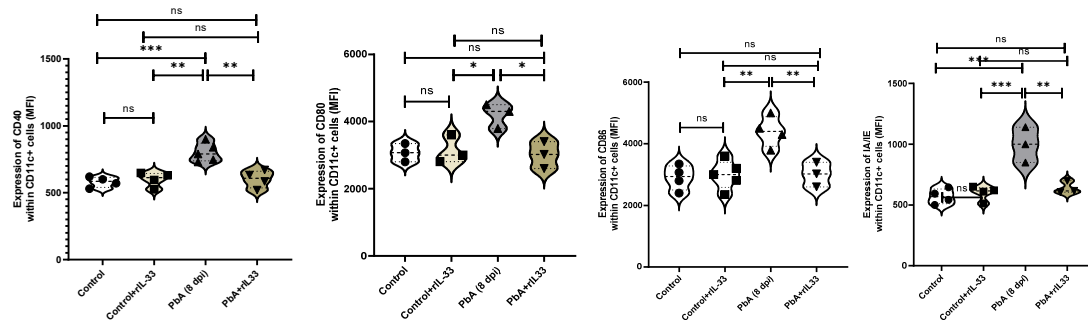
1. Brown WE, Hu JC, Athanasiou KA. Ammonium-Chloride-Potassium Lysing Buffer Treatment of Fully Differentiated Cells Increases Cell Purity and Resulting Neotissue Functional Properties. Tissue Eng Part C Methods. 2016 Sep;22(9):895-903. doi: 10.1089/ten.TEC.2016.0184. PMID: 27553086; PMCID: PMC5035916.

Violin Plots of the data Sets

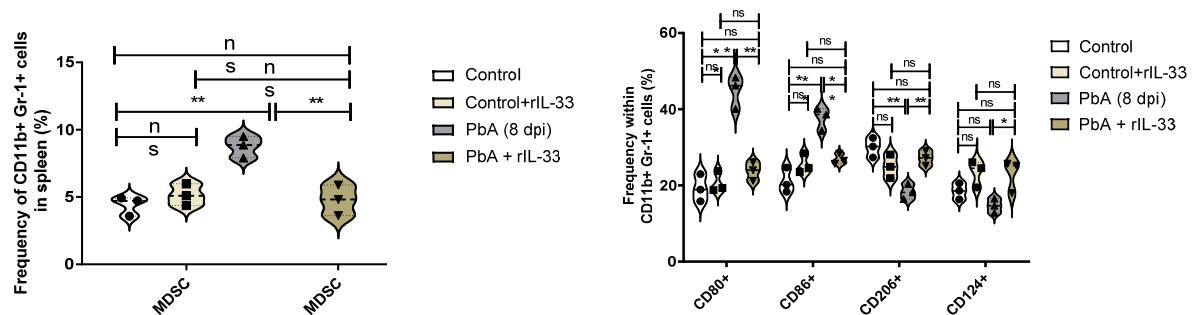
a. Expression of IL12 within CD11c+ Dendritic cells



b. Expression of various co-stimulatory markers within CD11c+ Dendritic cells



c. Frequency of MDSCs (CD11b+Gr1+) and the various co-stimulatory markers within them



d. Expression of Cytokines (IL-12 and IL-10) within MDSCs

