LAMPIRAN

Lampiran 1: Kegiatan Penelitian

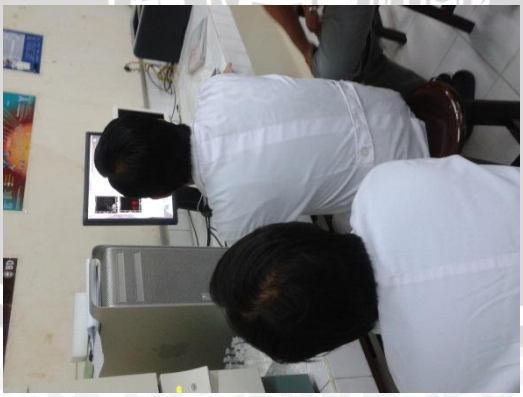
Pengambilan darah subyek

Sentrifus darah untuk mengambil PBMC

Hasil sentrifus, terlihat cincin PBMC

Pengambilan PBMC

PBMC setelah di sentrifus dengan PBS

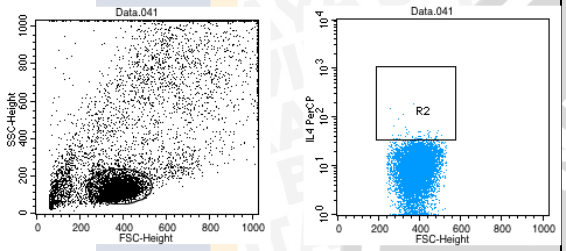


Perhitungan IL-4 dengan *flow cytometry*

LAMPIRAN 2 : UJI FLOWCYTOMETRY

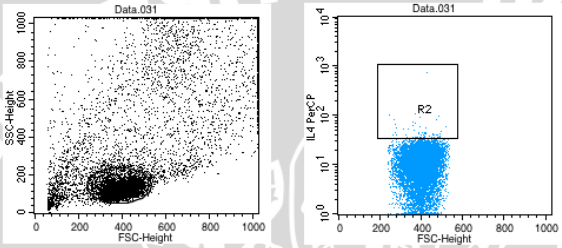
SEHAT

ANTIGEN	PPD	KONTROL



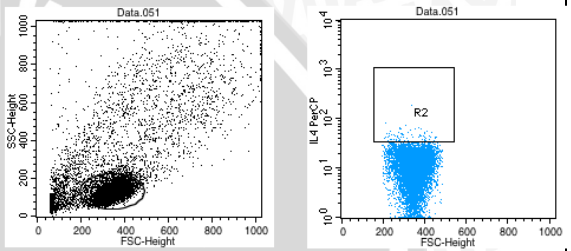
Sample ID: S6.A

Region	Events	% Gated	% Total
R2	70	0.62	0.36
R1	11214	100.00	58.40



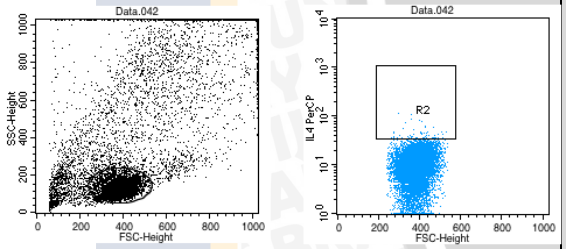
Sample ID: S6.P

Region	Events	% Gated	% Total
R2	76	0.66	0.39
R1	11530	100.00	58.54



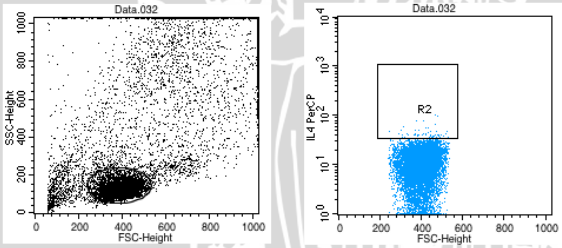
Sample ID: S6.K

Region	Events	% Gated	% Total
R2	94	0.80	0.52
R1	11683	100.00	64.68



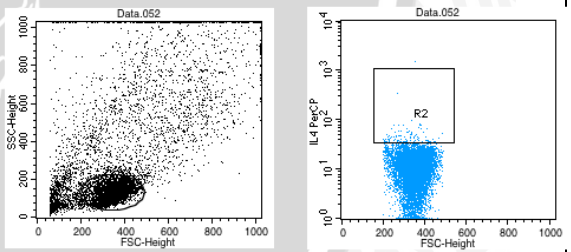
Sample ID: S7.A

Region	Events	% Gated	% Total
R2	77	0.68	0.40
R1	11246	100.00	58.17



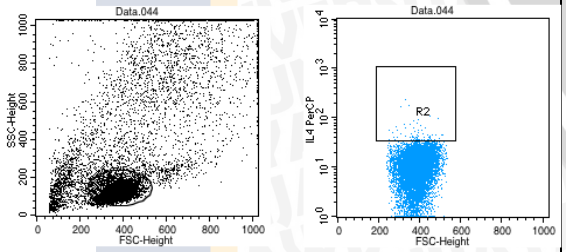
Sample ID: S7.P

Region	Events	% Gated	% Total
R2	70	0.61	0.36
R1	11480	100.00	58.73



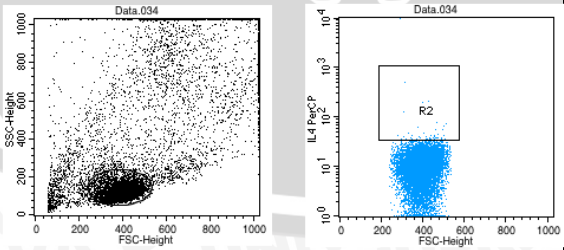
Sample ID: S7.K

Region	Events	% Gated	% Total
R2	115	0.98	0.63
R1	11714	100.00	64.26



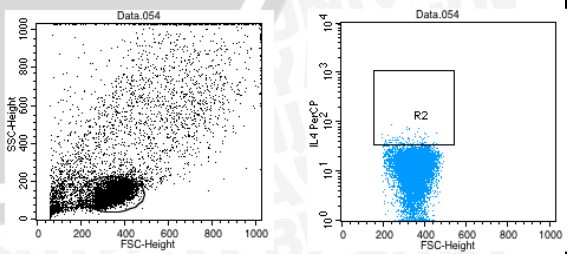
Sample ID: S9.A

Region	Events	% Gated	% Total
R2	81	0.73	0.42
R1	11160	100.00	58.08



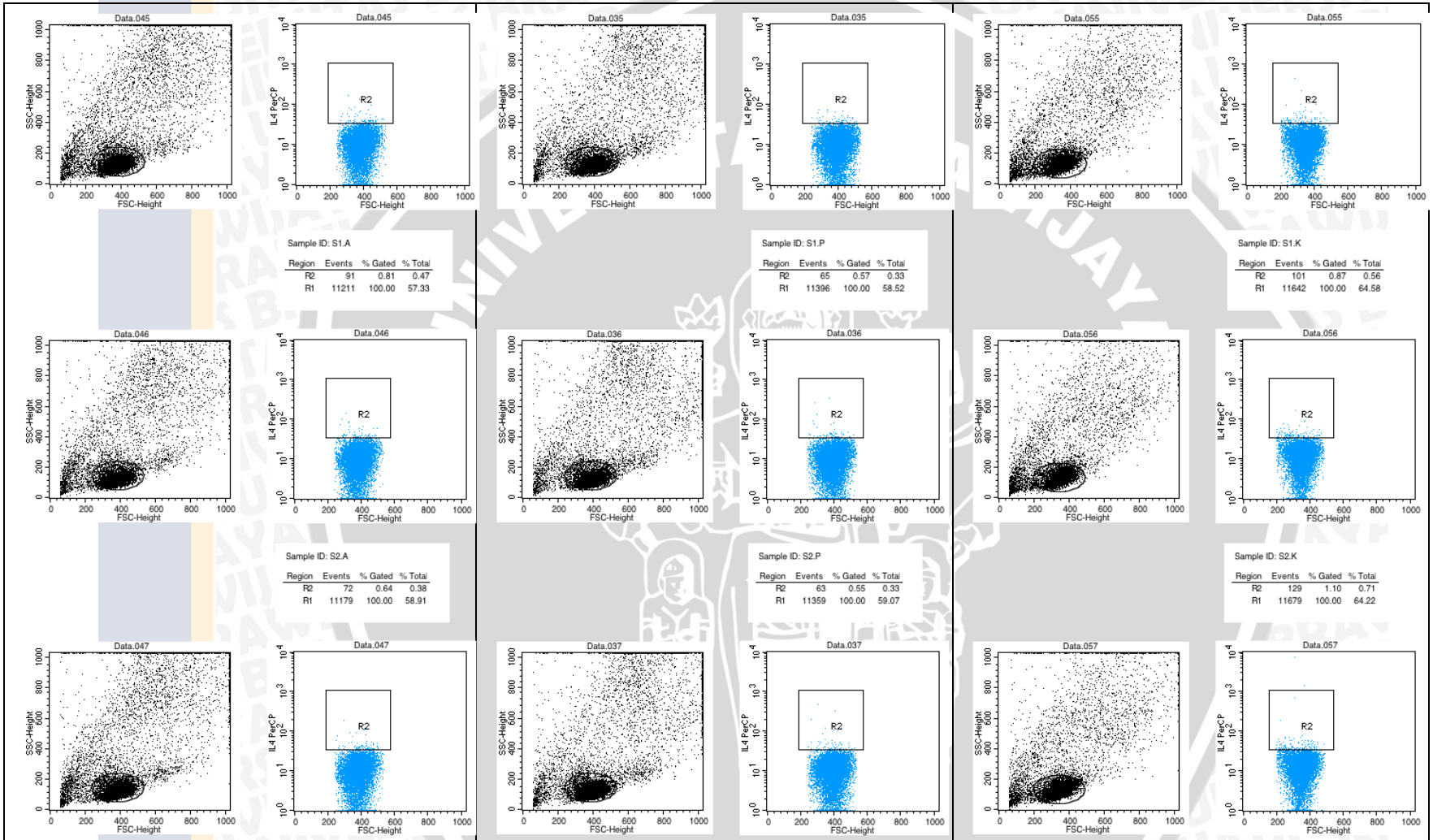
Sample ID: S9.P

Region	Events	% Gated	% Total
R2	63	0.55	0.32
R1	11386	100.00	58.49



Sample ID: S9.K

Region	Events	% Gated	% Total
R2	102	0.87	0.56
R1	11670	100.00	64.32



Sample ID: S1.A

Region	Events	% Gated	% Total
R2	91	0.81	0.47
R1	11211	100.00	57.33

Sample ID: S1.P

Region	Events	% Gated	% Total
R2	65	0.57	0.33
R1	11396	100.00	58.52

Sample ID: S1.K

Region	Events	% Gated	% Total
R2	101	0.87	0.56
R1	11642	100.00	64.58

Sample ID: S2.A

Region	Events	% Gated	% Total
R2	72	0.64	0.38
R1	11179	100.00	58.91

Sample ID: S2.P

Region	Events	% Gated	% Total
R2	63	0.55	0.33
R1	11359	100.00	59.07

Sample ID: S2.K

Region	Events	% Gated	% Total
R2	129	1.10	0.71
R1	11679	100.00	64.22

Sample ID: S3.A

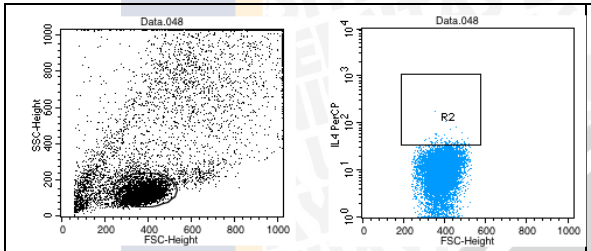
Region	Events	% Gated	% Total
R2	93	0.83	0.48
R1	11203	100.00	57.51

Sample ID: S3.P

Region	Events	% Gated	% Total
R2	65	0.57	0.34
R1	11391	100.00	59.03

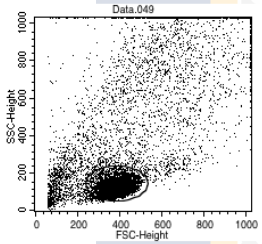
Sample ID: S3.K

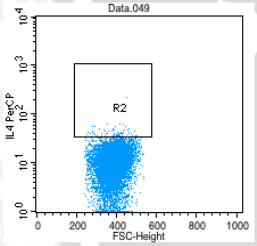
Region	Events	% Gated	% Total
R2	137	1.17	0.76
R1	11673	100.00	65.10



Sample ID: S4.A

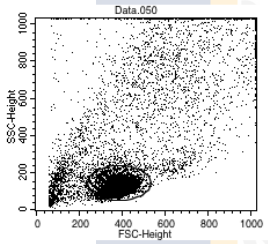
Region	Events	% Gated	% Total
R2	84	0.75	0.44
R1	11159	100.00	58.23

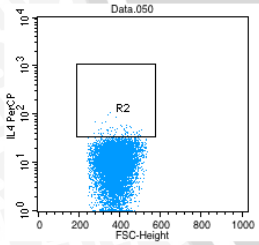




Sample ID: S5.A

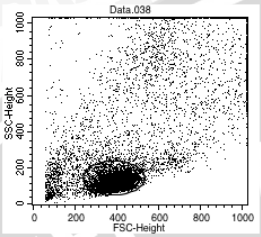
Region	Events	% Gated	% Total
R2	83	0.74	0.43
R1	11209	100.00	57.72

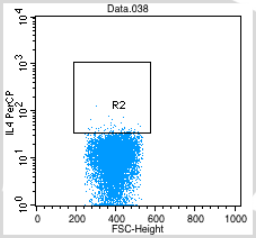




Sample ID: S10.A

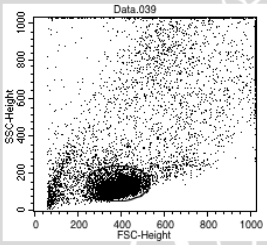
Region	Events	% Gated	% Total
R2	74	0.66	0.39
R1	11164	100.00	58.19

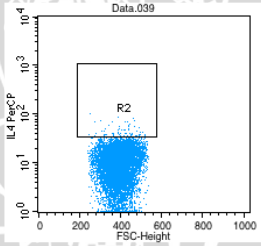




Sample ID: S4.P

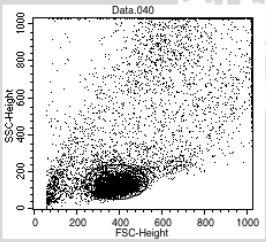
Region	Events	% Gated	% Total
R2	74	0.65	0.38
R1	11391	100.00	58.57

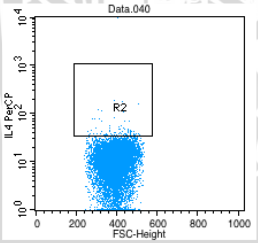




Sample ID: S5.P

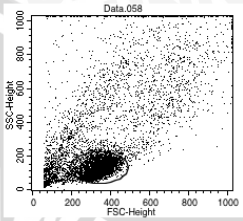
Region	Events	% Gated	% Total
R2	78	0.69	0.40
R1	11362	100.00	58.92

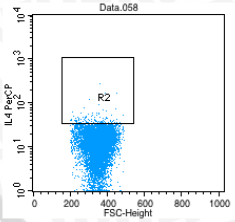




Sample ID: S10.P

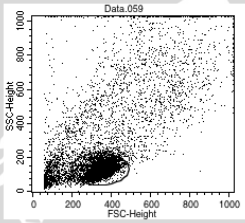
Region	Events	% Gated	% Total
R2	81	0.71	0.42
R1	11369	100.00	58.51

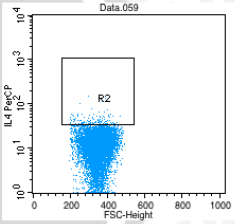




Sample ID: S4.K

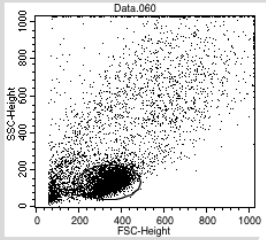
Region	Events	% Gated	% Total
R2	132	1.13	0.73
R1	11704	100.00	64.83

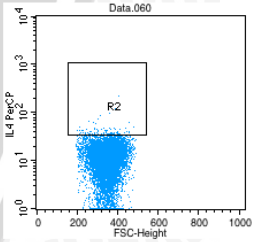




Sample ID: S5.K

Region	Events	% Gated	% Total
R2	137	1.18	0.76
R1	11642	100.00	64.21





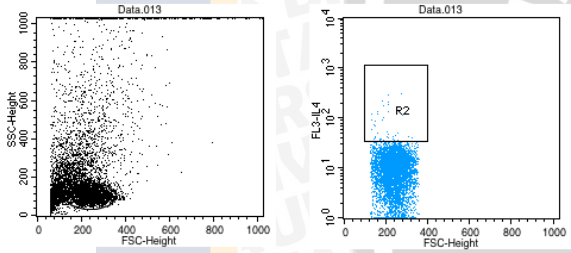
Sample ID: S10.K

Region	Events	% Gated	% Total
R2	106	0.91	0.59
R1	11684	100.00	64.79

64

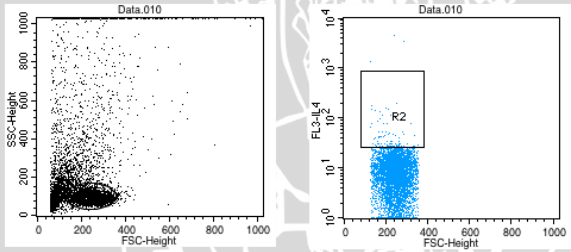
KONTAK

ANTIGEN	PPD	KONTROL



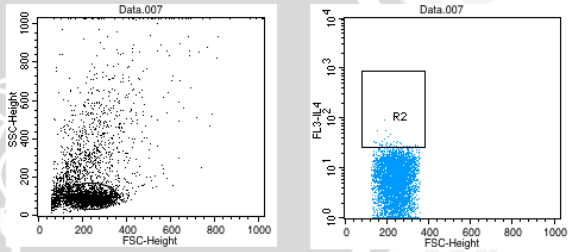
Sample ID: K11.A

Region	Events	% Gated	% Total
R2	50	0.92	0.40
R1	5416	100.00	43.27



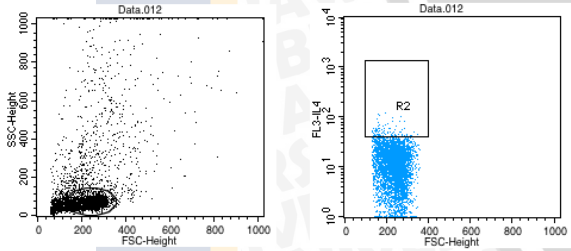
Sample ID: K11.P

Region	Events	% Gated	% Total
R2	93	1.73	0.86
R1	5383	100.00	49.64



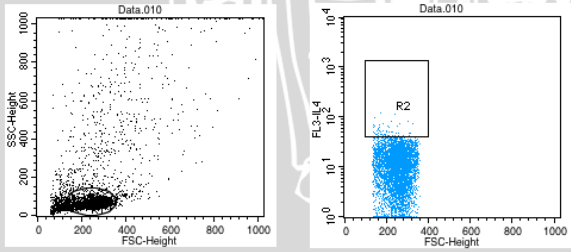
Sample ID: K11.K

Region	Events	% Gated	% Total
R2	44	0.82	0.52
R1	5353	100.00	63.15



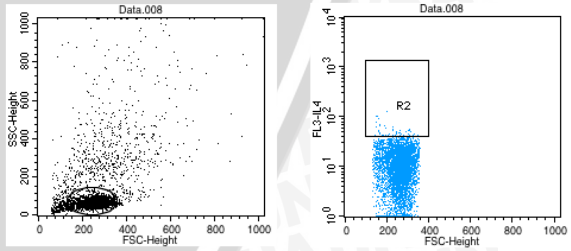
Sample ID: K13.A

Region	Events	% Gated	% Total
R2	114	2.32	1.46
R1	4911	100.00	62.98



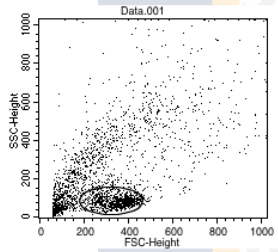
Sample ID: K13.P

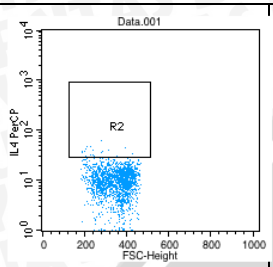
Region	Events	% Gated	% Total
R2	66	1.34	0.92
R1	4931	100.00	68.51



Sample ID: K13.K

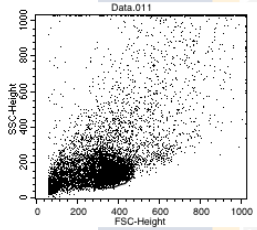
Region	Events	% Gated	% Total
R2	61	1.24	0.86
R1	4922	100.00	69.63

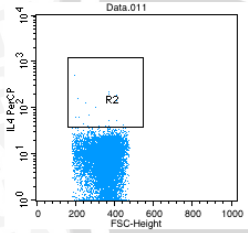




Sample ID: K1.A

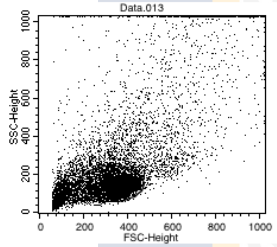
Region	Events	% Gated	% Total
R2	21	1.10	0.42
R1	1914	100.00	38.28

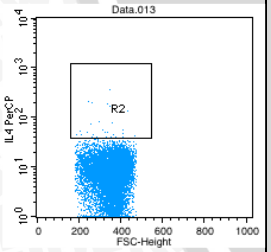




Sample ID: K6.A

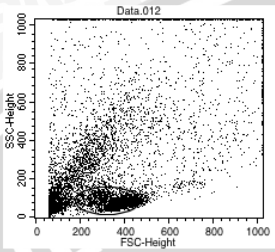
Region	Events	% Gated	% Total
R2	23	0.18	0.11
R1	12731	100.00	59.33

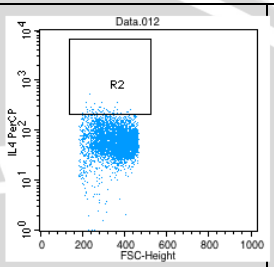




Sample ID: K8.A

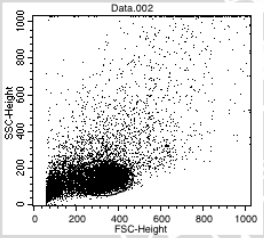
Region	Events	% Gated	% Total
R2	31	0.24	0.15
R1	12696	100.00	59.75

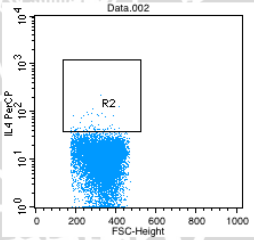




Sample ID: K1.P

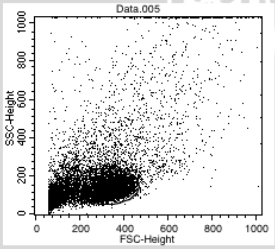
Region	Events	% Gated	% Total
R2	54	1.11	0.39
R1	4844	100.00	34.85

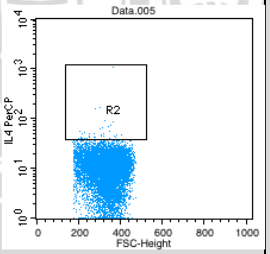




Sample ID: K7.P

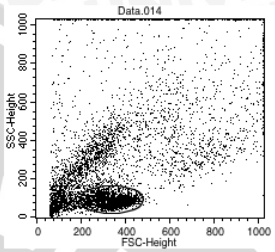
Region	Events	% Gated	% Total
R2	62	0.50	0.28
R1	12329	100.00	56.29

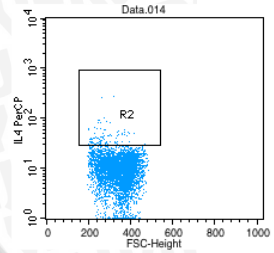




Sample ID: K10.P

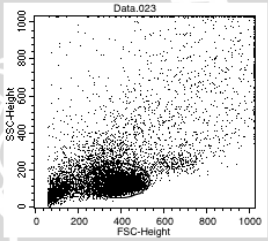
Region	Events	% Gated	% Total
R2	37	0.30	0.17
R1	12269	100.00	54.74

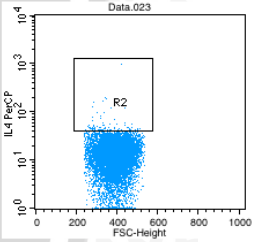




Sample ID: K1.K

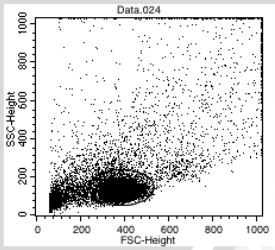
Region	Events	% Gated	% Total
R2	100	1.99	0.80
R1	5032	100.00	40.24

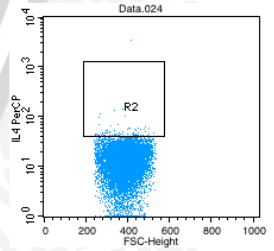




Sample ID: K8.K

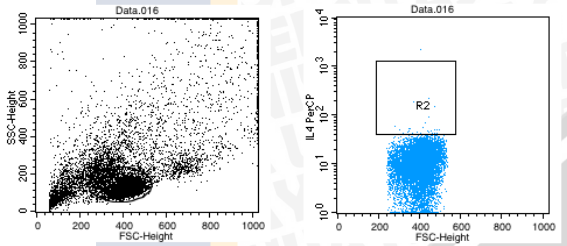
Region	Events	% Gated	% Total
R2	95	0.80	0.47
R1	11837	100.00	58.85





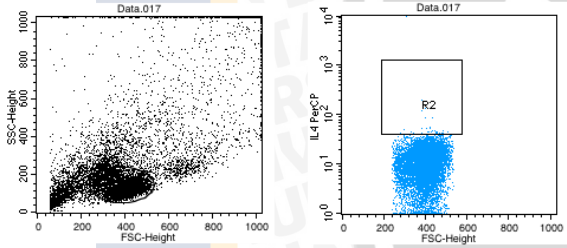
Sample ID: K9.K

Region	Events	% Gated	% Total
R2	87	0.73	0.44
R1	11915	100.00	59.75



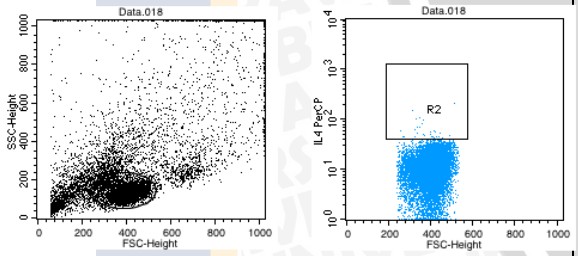
Sample ID: K1.A

Region	Events	% Gated	% Total
R2	30	0.25	0.14
R1	12115	100.00	56.78



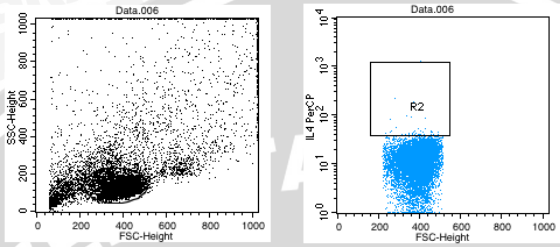
Sample ID: K2.A

Region	Events	% Gated	% Total
R2	41	0.34	0.19
R1	12182	100.00	56.22



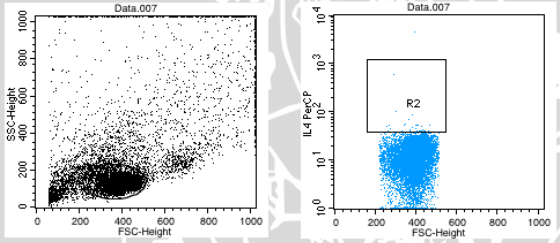
Sample ID: K3.A

Region	Events	% Gated	% Total
R2	35	0.28	0.16
R1	12282	100.00	56.64



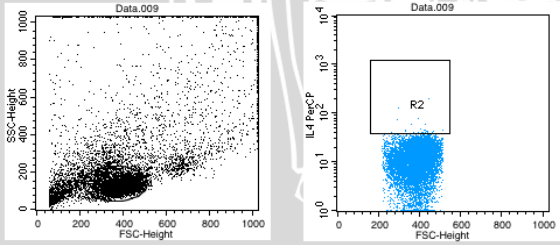
Sample ID: K1.P

Region	Events	% Gated	% Total
R2	52	0.44	0.26
R1	11905	100.00	60.27



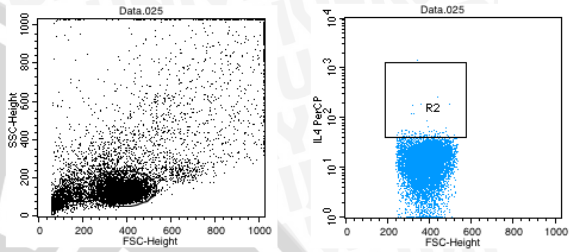
Sample ID: K2.P

Region	Events	% Gated	% Total
R2	45	0.38	0.23
R1	11868	100.00	60.08



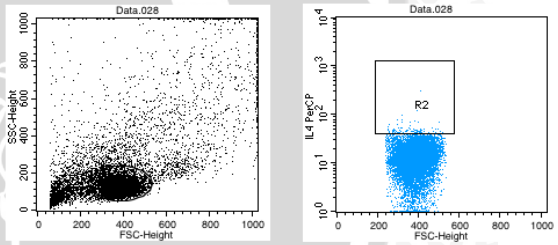
Sample ID: K4.P

Region	Events	% Gated	% Total
R2	28	0.24	0.14
R1	11888	100.00	60.98



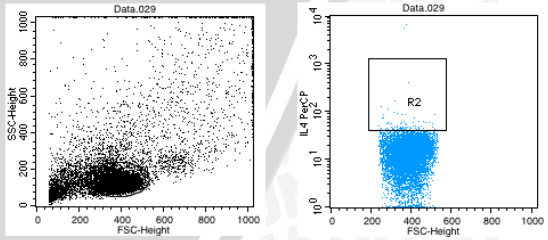
Sample ID: K1.K

Region	Events	% Gated	% Total
R2	89	0.75	0.44
R1	11869	100.00	59.01



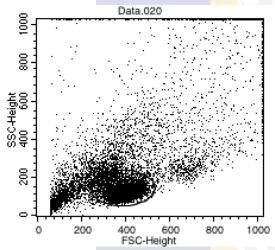
Sample ID: K4.K

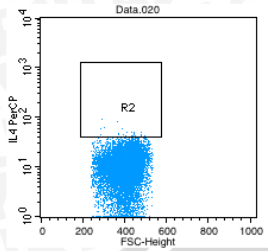
Region	Events	% Gated	% Total
R2	110	0.93	0.55
R1	11848	100.00	59.02



Sample ID: K5.K

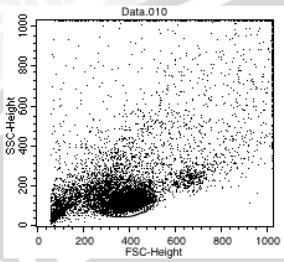
Region	Events	% Gated	% Total
R2	92	0.77	0.46
R1	11898	100.00	59.34

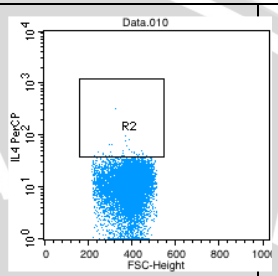




Sample ID: K5.A

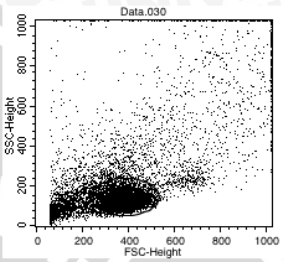
Region	Events	% Gated	% Total
R2	36	0.30	0.17
R1	12196	100.00	56.93

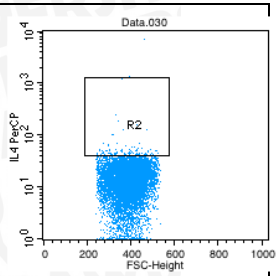




Sample ID: K5.P

Region	Events	% Gated	% Total
R2	39	0.33	0.20
R1	11885	100.00	60.97





Sample ID: K10.K

Region	Events	% Gated	% Total
R2	114	0.95	0.57
R1	11956	100.00	59.91

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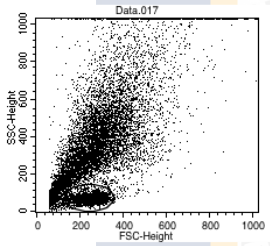
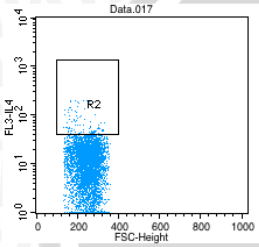
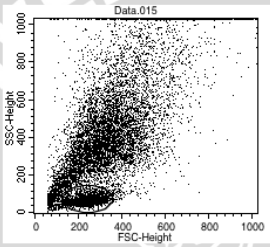
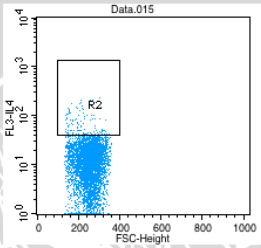




Sample ID: P12.A

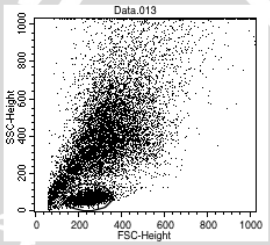
Region	Events	% Gated	% Total
R2	110	2.21	0.47
R1	4980	100.00	21.46

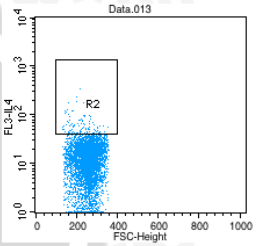




Sample ID: P12.P

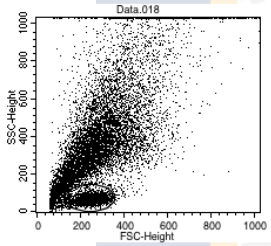
Region	Events	% Gated	% Total
R2	137	2.74	0.62
R1	5002	100.00	22.62

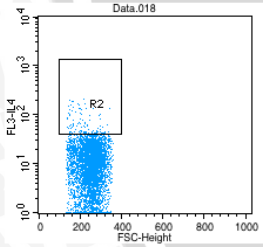




Sample ID: P12.K

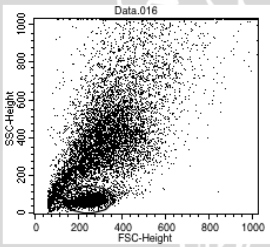
Region	Events	% Gated	% Total
R2	121	2.42	0.50
R1	4997	100.00	20.85

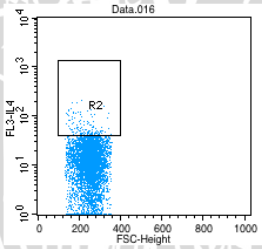




Sample ID: P13.A

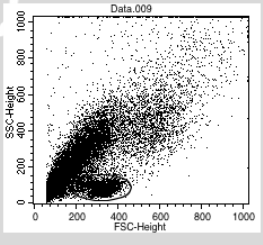
Region	Events	% Gated	% Total
R2	118	2.36	0.51
R1	4997	100.00	21.41

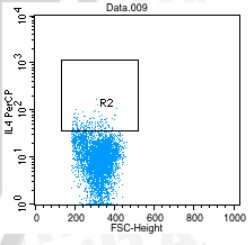




Sample ID: P13.P

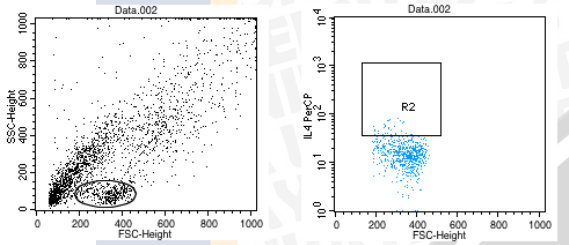
Region	Events	% Gated	% Total
R2	136	2.71	0.62
R1	5012	100.00	22.76





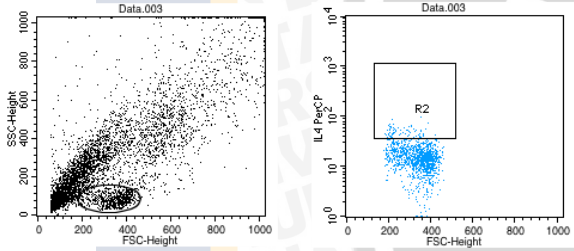
Sample ID: P1.K

Region	Events	% Gated	% Total
R2	158	3.02	0.44
R1	5229	100.00	14.64



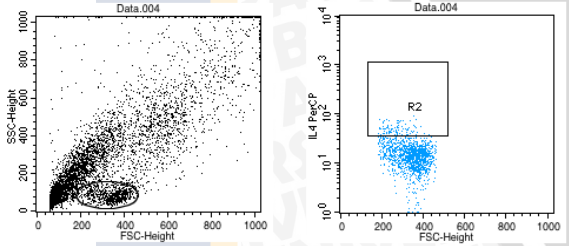
Sample ID: P1.A

Region	Events	% Gated	% Total
R2	36	5.33	0.72
R1	676	100.00	13.52



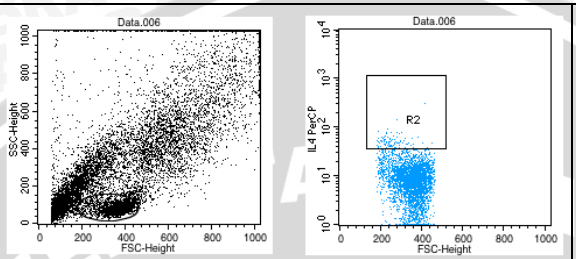
Sample ID: P2.A

Region	Events	% Gated	% Total
R2	77	5.93	0.77
R1	1298	100.00	12.98



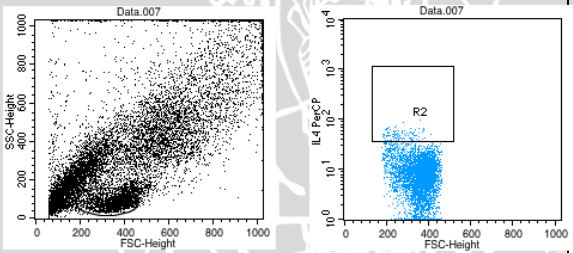
Sample ID: P3.A

Region	Events	% Gated	% Total
R2	103	7.42	1.03
R1	1388	100.00	13.88



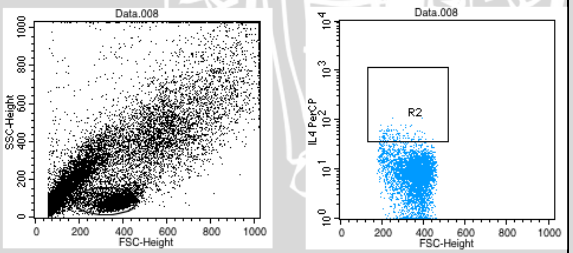
Sample ID: P1.P

Region	Events	% Gated	% Total
R2	105	2.76	0.52
R1	3809	100.00	19.05



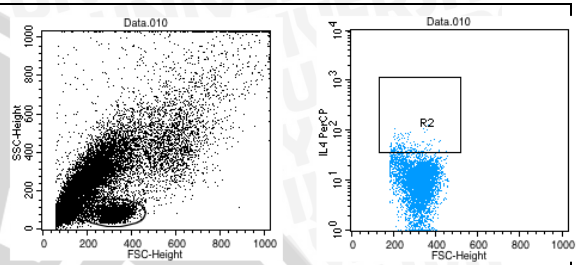
Sample ID: P2.P

Region	Events	% Gated	% Total
R2	115	2.39	0.46
R1	4807	100.00	19.09



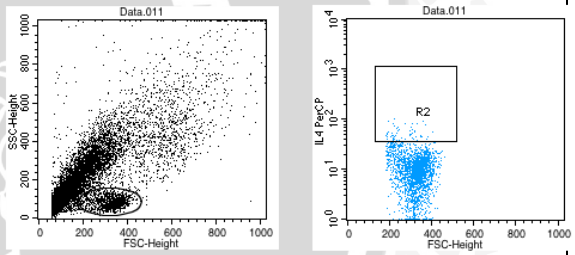
Sample ID: P3.P

Region	Events	% Gated	% Total
R2	118	2.44	0.47
R1	4844	100.00	19.16



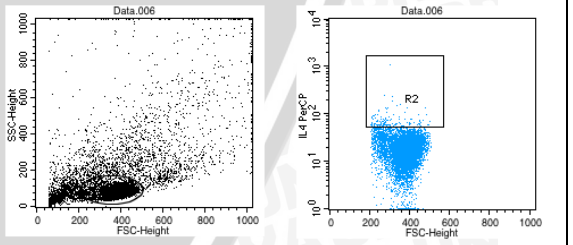
Sample ID: P2.K

Region	Events	% Gated	% Total
R2	173	3.30	0.46
R1	5248	100.00	14.03



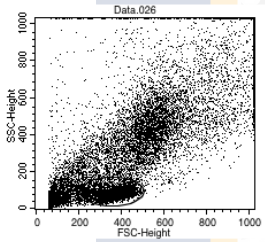
Sample ID: P3.K

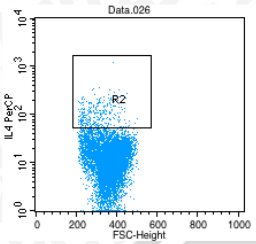
Region	Events	% Gated	% Total
R2	63	2.85	0.38
R1	2208	100.00	13.43



Sample ID: P11.K

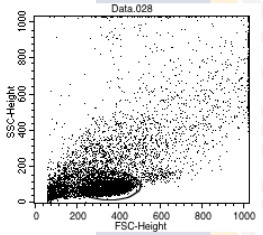
Region	Events	% Gated	% Total
R2	147	1.36	0.84
R1	10831	100.00	62.09

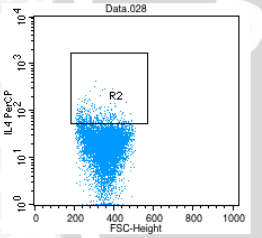




Sample ID: P11.A

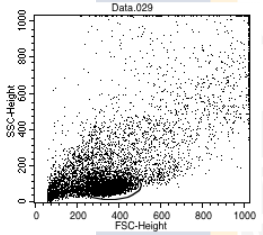
Region	Events	% Gated	% Total
R2	303	2.73	0.98
R1	11107	100.00	35.81

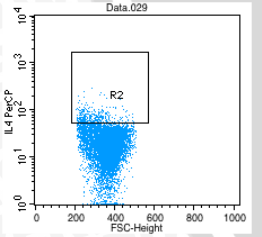




Sample ID: P13.A

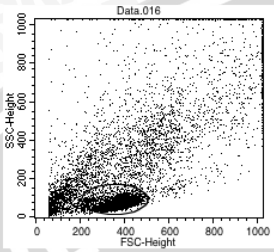
Region	Events	% Gated	% Total
R2	377	3.36	1.92
R1	11218	100.00	57.16

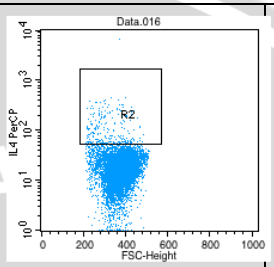




Sample ID: P14.A

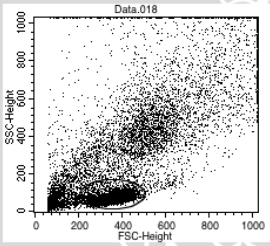
Region	Events	% Gated	% Total
R2	354	3.16	1.82
R1	11189	100.00	57.53

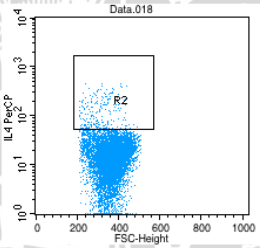




Sample ID: P11.P

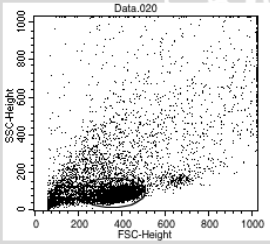
Region	Events	% Gated	% Total
R2	245	2.32	1.28
R1	10550	100.00	55.05

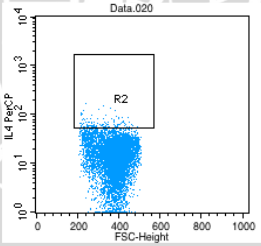




Sample ID: P13.P

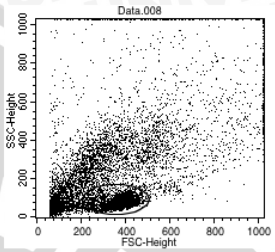
Region	Events	% Gated	% Total
R2	235	2.19	0.98
R1	10747	100.00	44.96

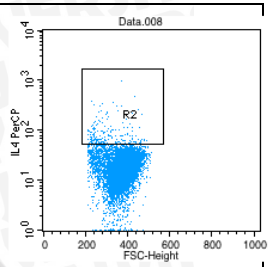




Sample ID: P15.P

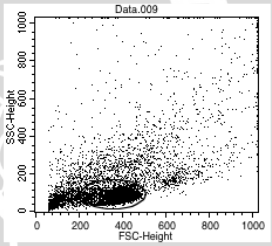
Region	Events	% Gated	% Total
R2	117	1.07	0.64
R1	10928	100.00	60.06

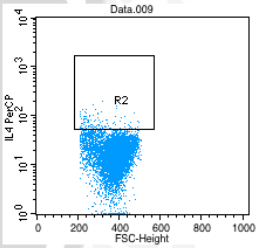




Sample ID: P13.K

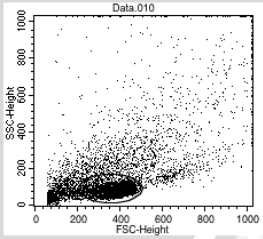
Region	Events	% Gated	% Total
R2	212	1.98	0.98
R1	10698	100.00	49.70

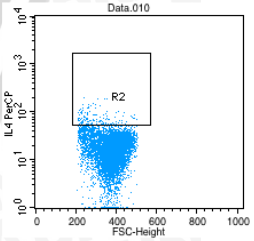




Sample ID: P14.K

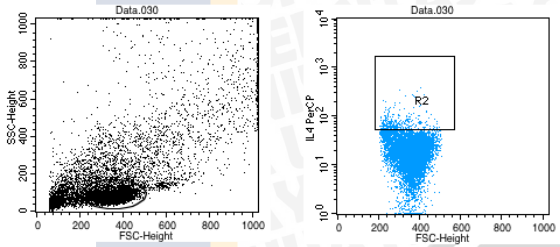
Region	Events	% Gated	% Total
R2	119	1.10	0.70
R1	10828	100.00	63.57





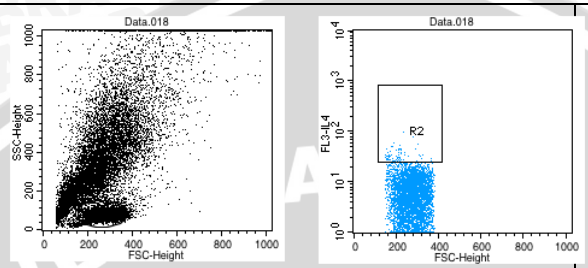
Sample ID: P15.K

Region	Events	% Gated	% Total
R2	141	1.30	0.83
R1	10880	100.00	63.73



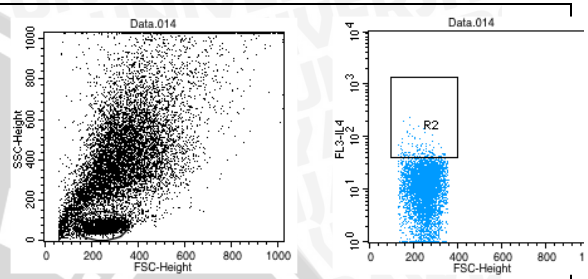
Sample ID: P15.A

Region	Events	% Gated	% Total
R2	329	2.96	1.70
R1	11131	100.00	57.42



Sample ID: P11.P

Region	Events	% Gated	% Total
R2	82	1.43	0.30
R1	5749	100.00	20.91



Sample ID: P13.K

Region	Events	% Gated	% Total
R2	125	2.50	0.52
R1	5009	100.00	20.75

Lampiran 3: Analisis Statistik Perbandingan Pengaruh Pemberian Protein 38 kDa pada Kelompok Sehat, Kontak dan Pasien

Uji normalitas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	Df	Sig.	Statistic	df	Sig.
antigen	,255	27	,000	,834	27	,001

Uji homogenitas

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
8,563	2	24	,002

Ranks

	perlakuan	N	Mean Rank
antigen	Sehat	9	12,00
	Kontak	9	7,00
	Pasien	9	23,00
	Total	27	

Test Statistics[a,b]

	Antigen
Chi-Square	19,149
df	2
Asymp. Sig.	,000

Uji Mann Whitney

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
antigen	Sehat	9	12,00	108,00
	Kontak	9	7,00	63,00
	Total	18		

Test Statistics[a]

	antigen
Mann-Whitney U	18,000
Wilcoxon W	63,000
Z	-1,988
Asymp. Sig. (2-tailed)	,047
Exact Sig. [2*(1-tailed Sig.)]	,050[b]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
antigen	Sehat	9	5,00	45,00
	Pasien	9	14,00	126,00
	Total	18		

	antigen
Mann-Whitney U	,000
Wilcoxon W	45,000
Z	-3,576
Asymp. Sig. (2-tailed)	,000
Exact Sig. [2*(1-tailed Sig.)]	,000[b]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Ranks

	Perlakuan	N	Mean Rank	Sum of Ranks
antigen	Kontak	9	5,00	45,00
	Pasien	9	14,00	126,00
	Total	18		

Test Statistics[a]

	antigen
Mann-Whitney U	,000
Wilcoxon W	45,000
Z	-3,578
Asymp. Sig. (2-tailed)	,000
Exact Sig. [2*(1-tailed Sig.)]	,000[b]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Lampiran 4 : Analisis Statistik Perbandingan Pengaruh Pemberian Protein 38 kDa (antigen) dengan PPD dan Kontrol pada Subyek Sehat

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
flowcytometri	,152	27	,108	,895	27	,010

Test of Homogeneity of Variances

Levene Statistic	df1	df2	Sig.
9,502	2	24	,001

	perlakuan	N	Mean Rank
flowcytometri	antigen	9	12,83
	PPD	9	6,39
	Kontrol	9	22,78
	Total	27	

Test Statistics[a,b]

	flowcytometri
Chi-Square	19,501
Df	2
Asymp. Sig.	,000

a. Kruskal Wallis Test
b. Grouping Variable: perlakuan

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
flowcytometri	antigen	9	12,61	113,50
	PPD	9	6,39	57,50
	Total	18		

	flowcytometri
Mann-Whitney U	12,500
Wilcoxon W	57,500
Z	-2,476
Asymp. Sig. (2-tailed)	**,013**
Exact Sig. [2*(1-tailed Sig.)]	,011[b]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
flowcytometri	antigen	9	5,22	47,00
	Kontrol	9	13,78	124,00
	Total	18		

Test Statistics[a]

	flowcytometri
Mann-Whitney U	2,000
Wilcoxon W	47,000
Z	-3,401
Asymp. Sig. (2-tailed)	,001
Exact Sig. [2*(1-tailed Sig.)]	,000[b]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Lampiran 5 : Analisis Statistik Perbandingan antara Pengaruh Pemberian Protein 38 kDa (antigen) dengan PPD dan Kontrol pada subyek kontak

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
transform	,144	27	,155	,934	27	,087

Test of Homogeneity of Variances

transform

Levene Statistic	df1	df2	Sig.
1,708	2	24	,203

ANOVA

transform

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,647	2	,324	6,075	,007
Within Groups	1,278	24	,053		
Total	1,926	26			

LSD

(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
antigen	PPD	-,13480	,10880	,227	-,3594	,0898
	Kontrol	-,37440*	,10880	,002	-,5989	-,1498

Lampiran 6 : Analisis Statistik Perbandingan antara Pengaruh Pemberian Protein 38 kDa (antigen) dengan PPD dan Kontrol pada Subyek Pasien

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
flowcytometri	,113	27	,200*	,970	27	,608

Test of Homogeneity of Variances

flowcytometri

Levene Statistic	df1	df2	Sig.
,176	2	24	,840

ANOVA

flowcytometri

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4,352	2	2,176	6,835	,004
Within Groups	7,642	24	,318		
Total	11,994	26			

LSD

(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Antigen	PPD	,50556	,26600	,069	-,0435	1,0546
	Kontrol	,98333*	,26600	,001	,4343	1,5323