



Remote Flow Cytometry Analysis of Hematological Malignancies

CHRONIC LYMPHOPROLIFERATIVE DISORDERS CLPD

T cell lymphoma

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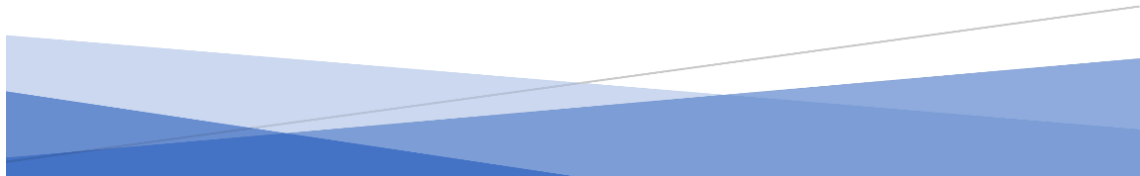


Evaluation of Chronic Lymphoproliferative Disorders CLPD.

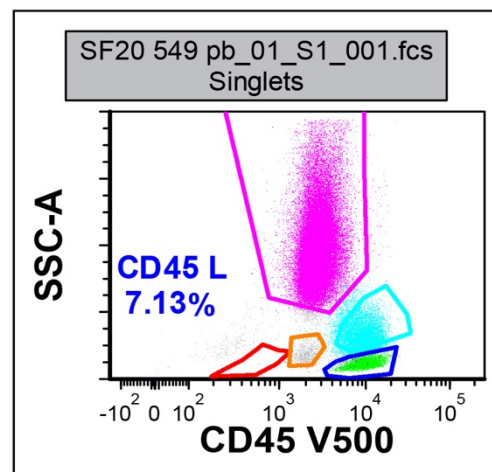
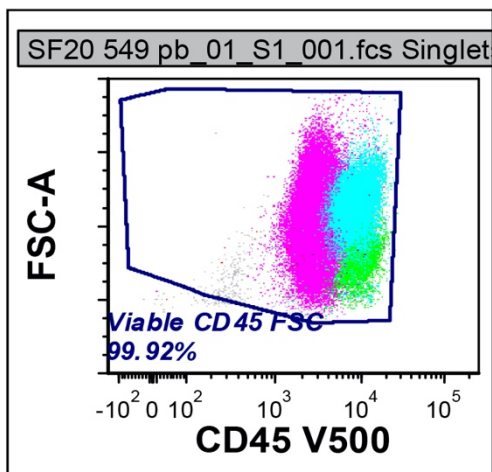
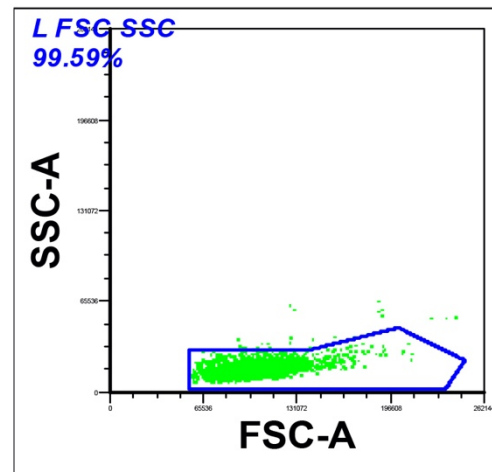
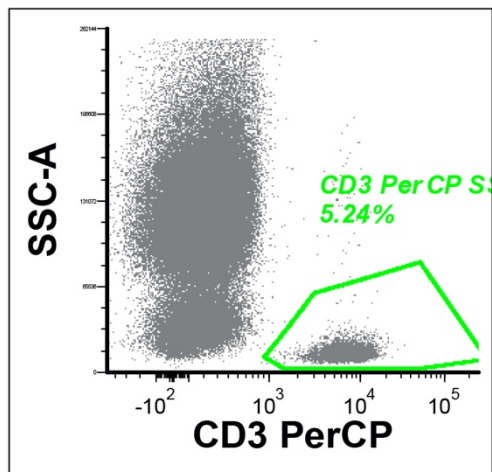
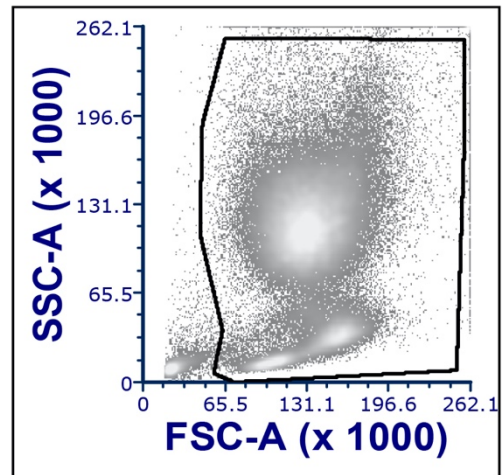
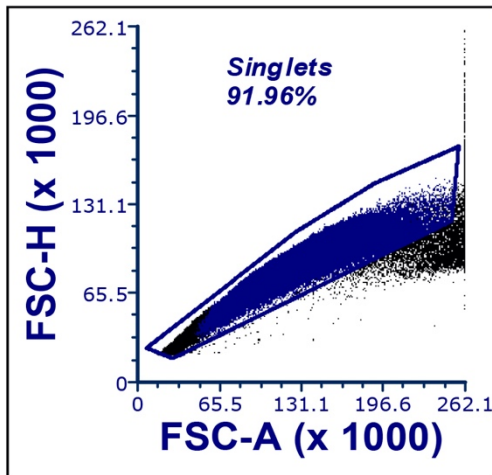
Flow Cytometry is an essential tool for the diagnostic screening of CLPD, and for specific identification and characterization of the expanded aberrant lymphocytes, for accurate diagnosis and classification of mature lymphoid malignancies (B, T and NK CLPD)

Example of T-cell lymphoproliferative disorder consistent with Peripheral T-cell lymphoma (PTCL), not further classified.

Example of Vbeta analysis of this case is also included.

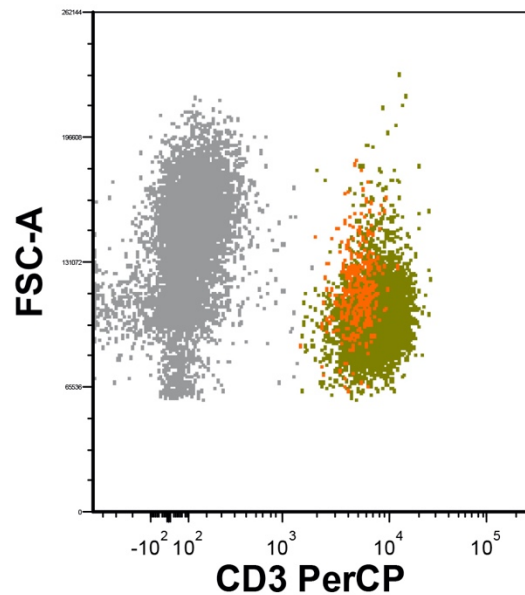
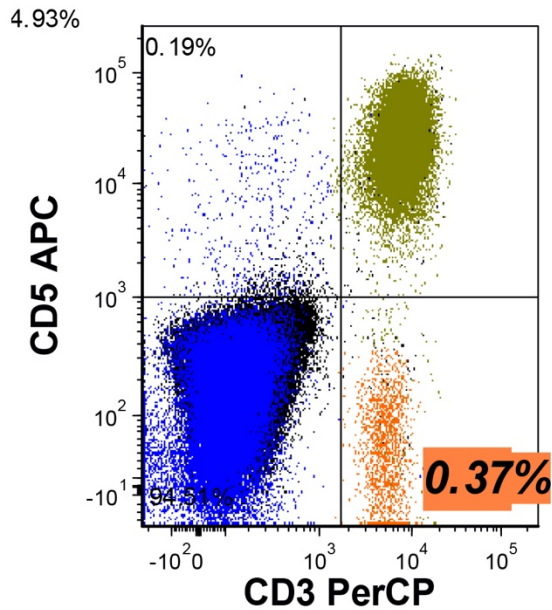
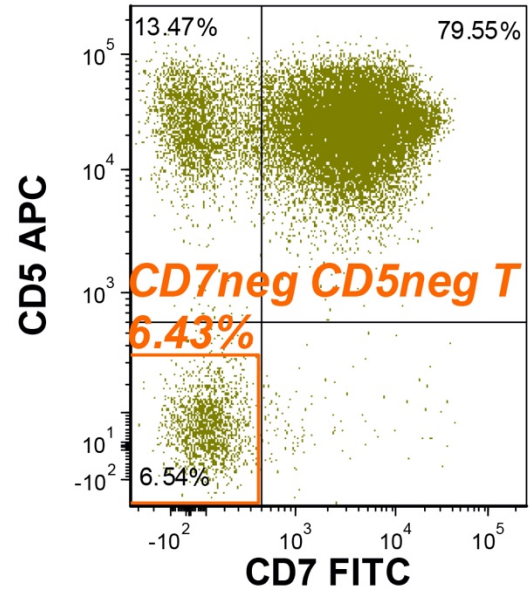
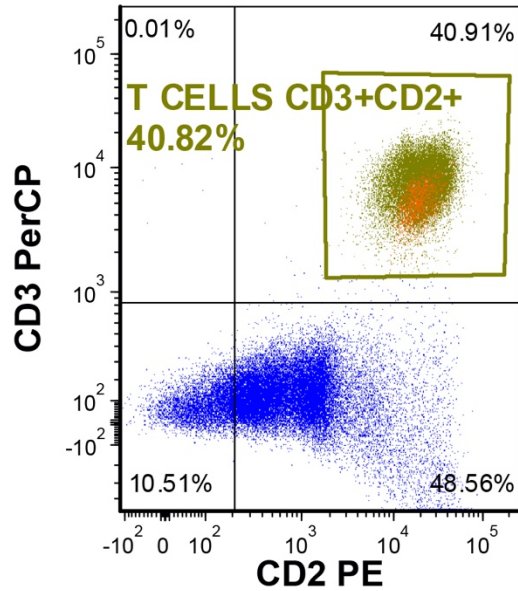


INITIAL GATING

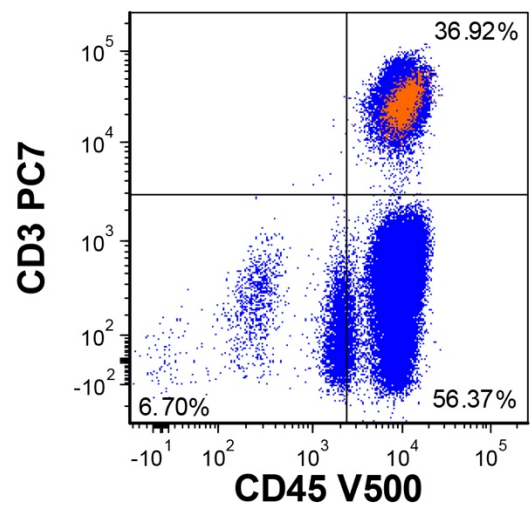
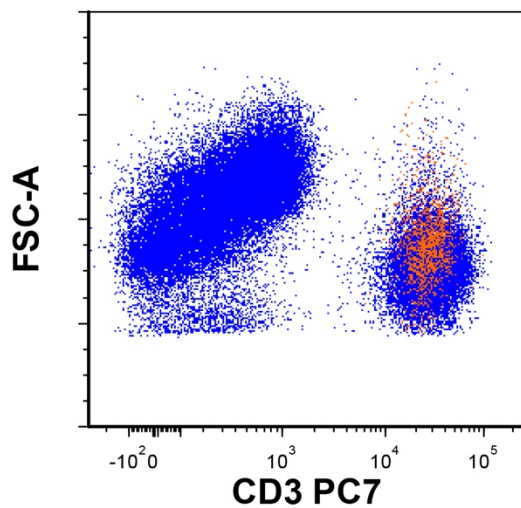
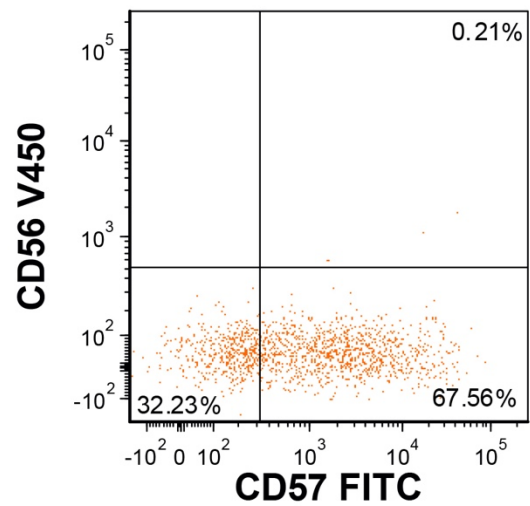
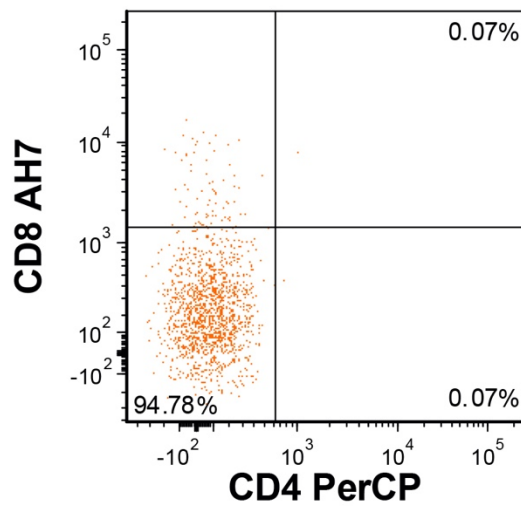
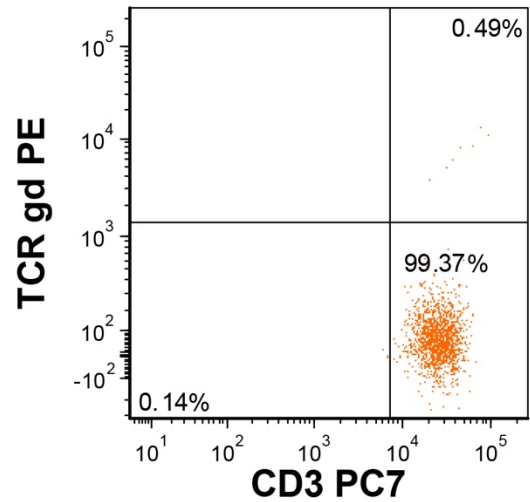
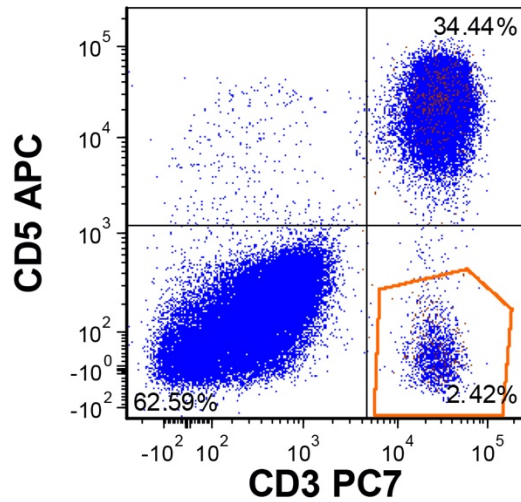


**IDENTIFICATION OF ABNORMAL T CELLS:
CD3+ CD2+ CD7neg CD5neg**

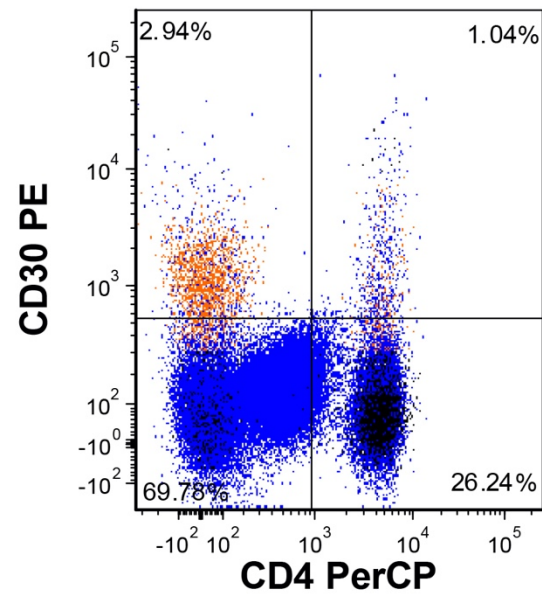
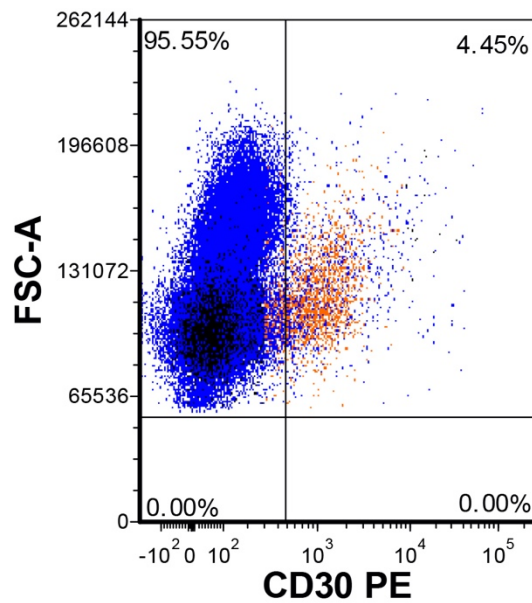
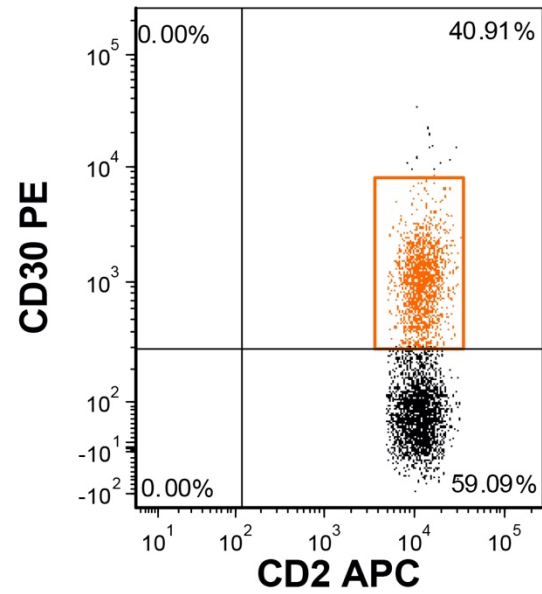
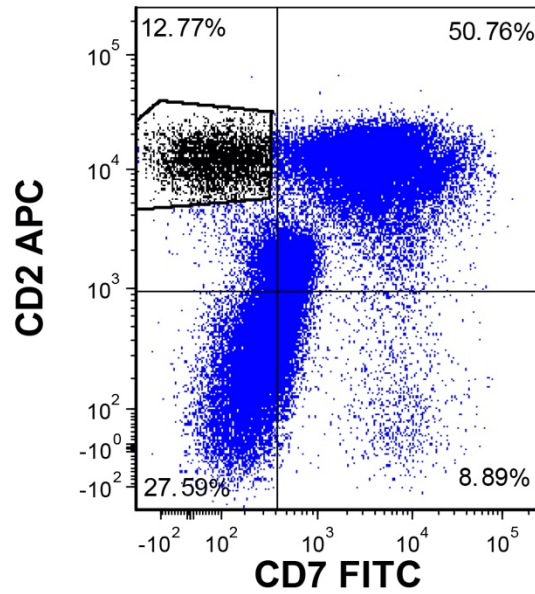
6.43% of total T cells
2.81% of total lymphocytes
0.37% of total viable cells

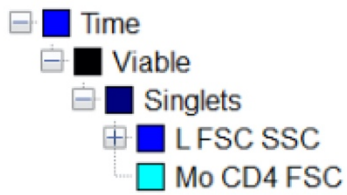


**CHARACTERIZATION OF ABNORMAL T CELLS:
CD45++ CD4NEG CD8NEG CD56neg CD57+v
TCR gd NEG**



**CHARACTERIZATION OF ABNORMAL T CELLS:
CD30+ , intermediate size**

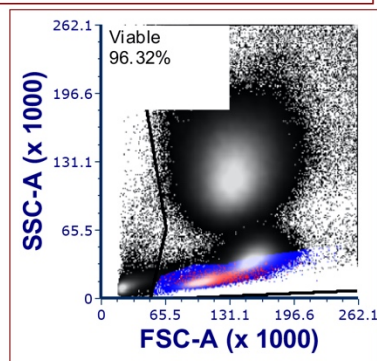
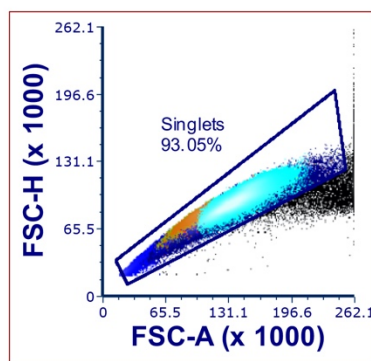
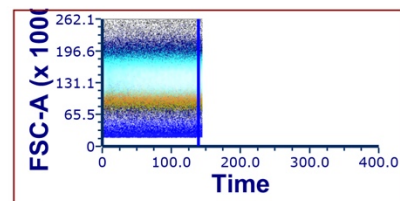
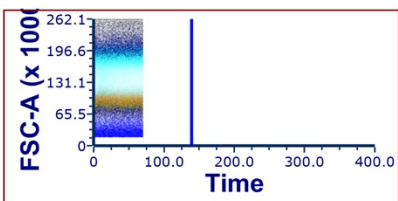
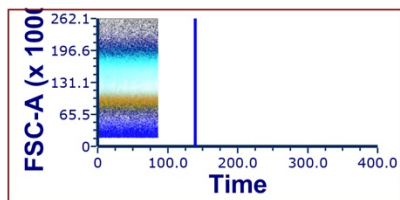
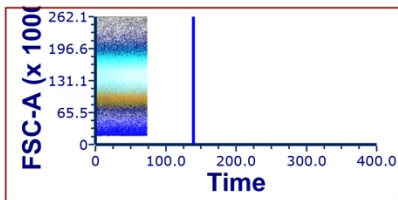
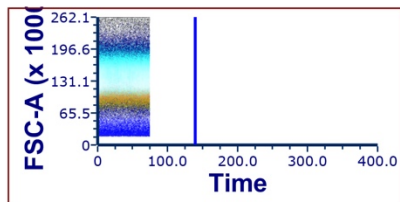
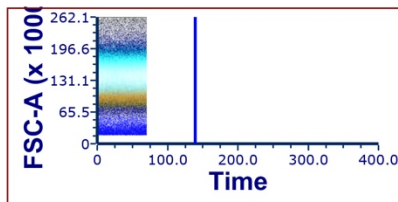
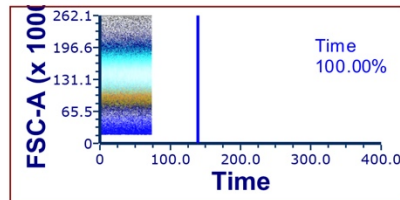
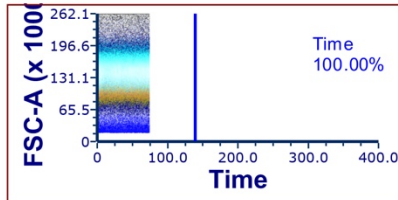


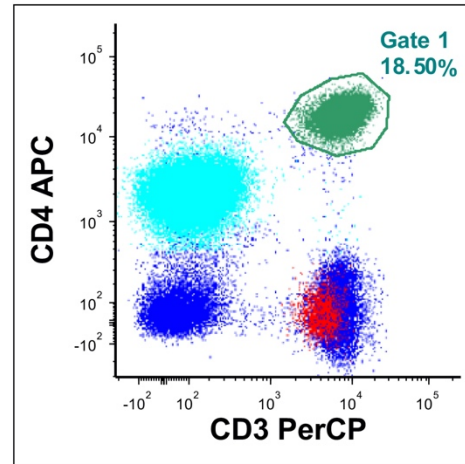
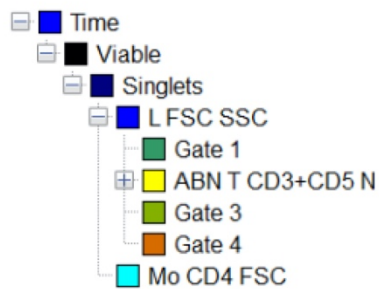


VBeta Panel

Data List (8 tubes):

- 1 Vb Mix A
- 2 Vb Mix B
- 3 Vb Mix C
- 4 Vb Mix D
- 5 Vb Mix E
- 6 Vb Mix F
- 7 Vb Mix G
- 8 Vb Mix H



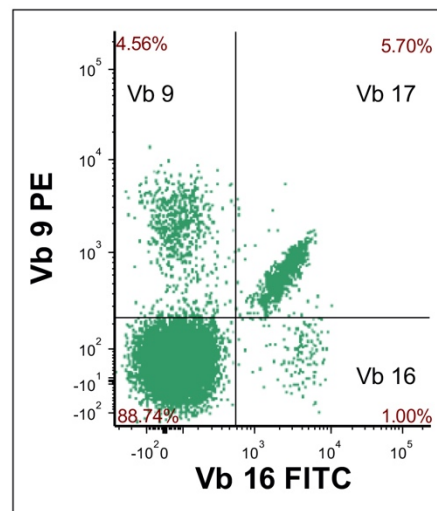
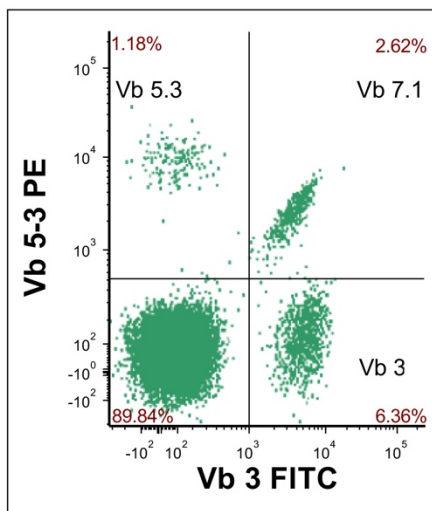


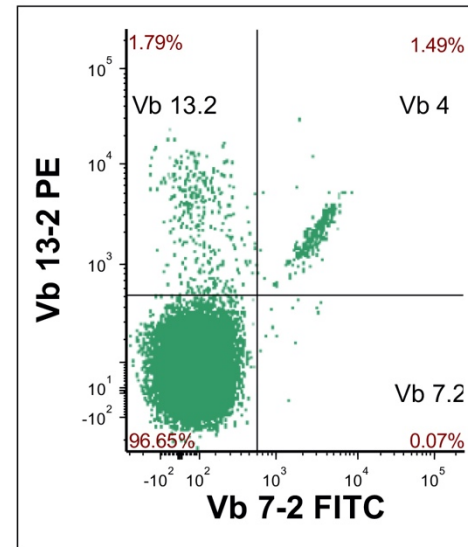
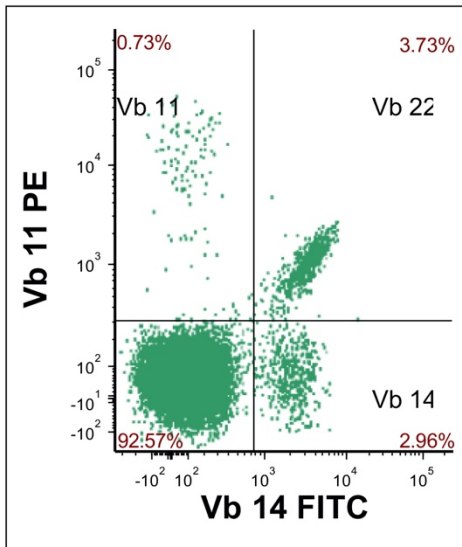
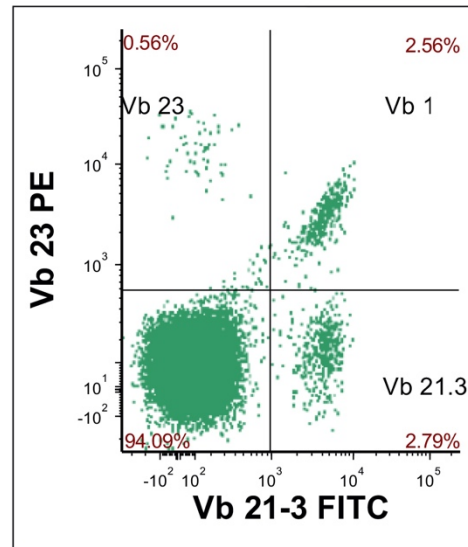
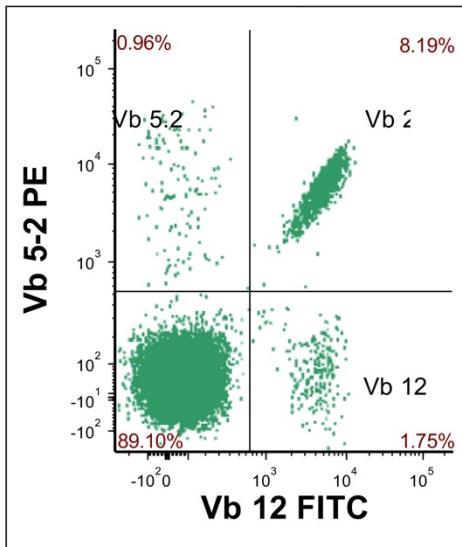
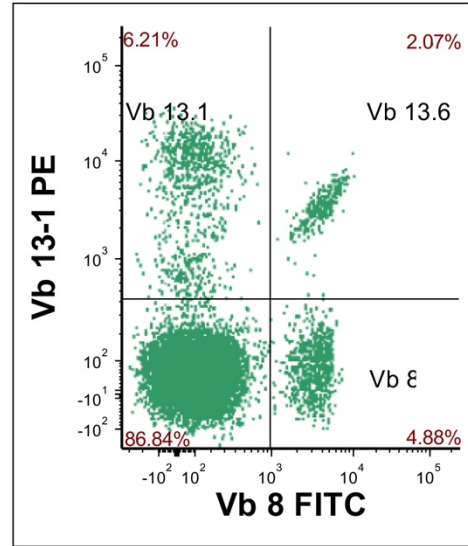
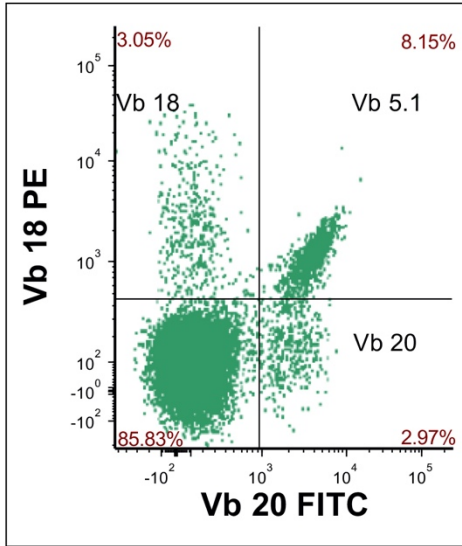
V BETA TEST - ANALYSIS STRATEGY

The initial T lymphocyte analysis demonstrated a cluster of abnormal T cells, that express CD3 but are negative for CD5, CD4 and CD8.

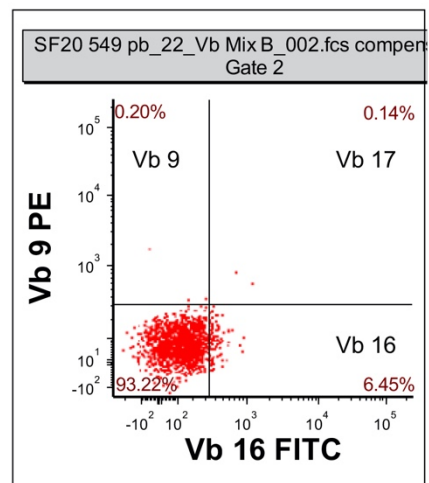
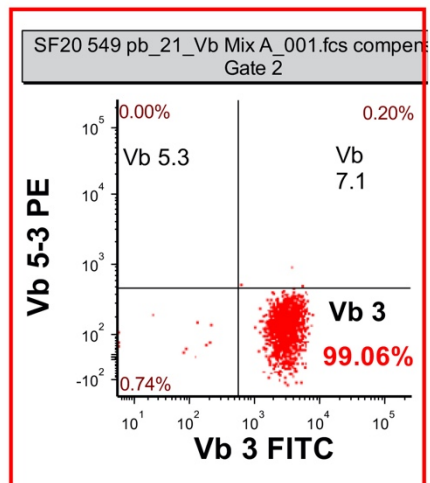
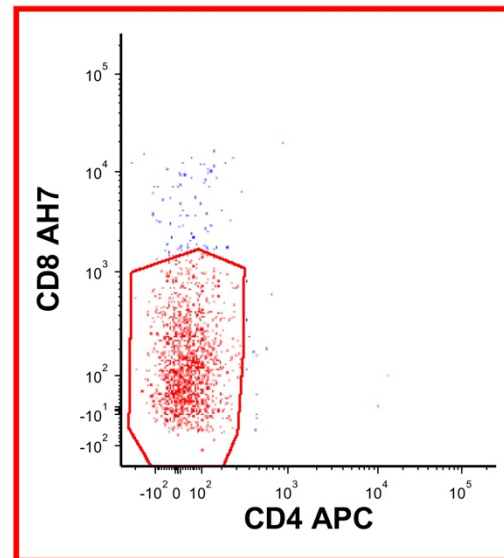
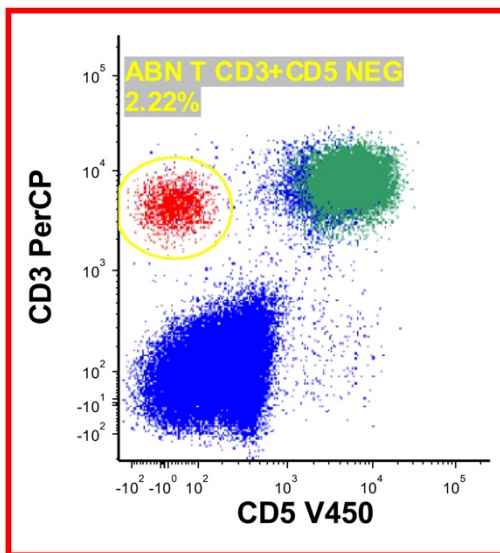
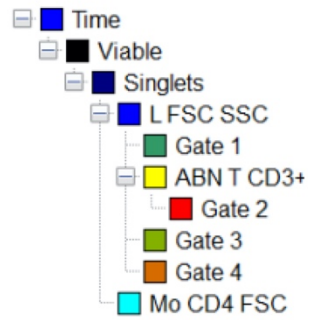
An additional analysis was performed to determine T-cell clonality based on the expression of different Vbeta families of the T-cell receptor (TcR) on these abnormal cells using a broad panel of 24 anti-Vbeta monoclonal antibodies.

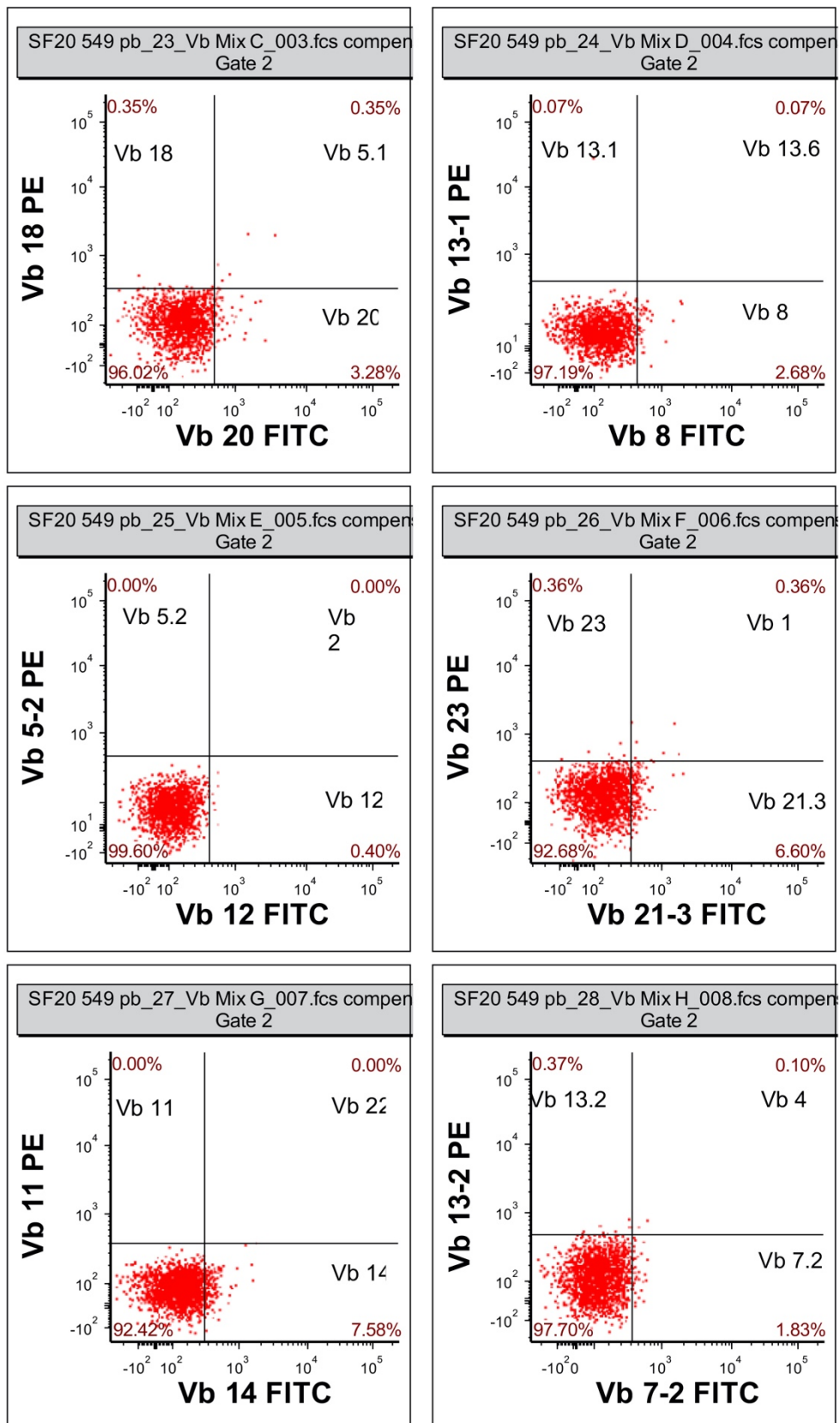
While the phenotypically normal T cells (GATE 1 on CD4+T cells, GATE 3 on CD5+ T cells and GATE 4 on CD8+ T cells) showed a normal Vbeta family expression distribution, **99% of the abnormal cells (GATE 2) demonstrated expression of Vbeta 3, that confirms a clonal T-cell expansion.**





Vbeta Gate 1	%
5.3	1.18
7.1	2.62
3	6.36
9	4.56
17	5.70
16	1.00
18	3.05
5.1	8.15
20	2.97
13.1	6.21
13.6	2.07
8	4.88
5.2	0.96
2	8.19
12	1.75
23	0.56
1	2.56
21.3	2.79
11	0.73
22	3.73
14	2.96
13.2	1.79
4	1.49
7.2	0.07
Total	76.33





Vbeta Gate 2	%
5.3	0.00
7.1	0.20
3	99.06
9	0.20
17	0.14
16	6.45
18	0.35
5.1	0.35
20	3.28
13.1	0.07
13.6	0.07
8	2.68
5.2	0.00
2	0.00
12	0.40
23	0.36
1	0.36
21.3	6.60
11	0.00
22	0.00
14	7.58
13.2	0.37
4	0.10
7.2	1.83
TOTAL	130.45

