

Figure S7.1

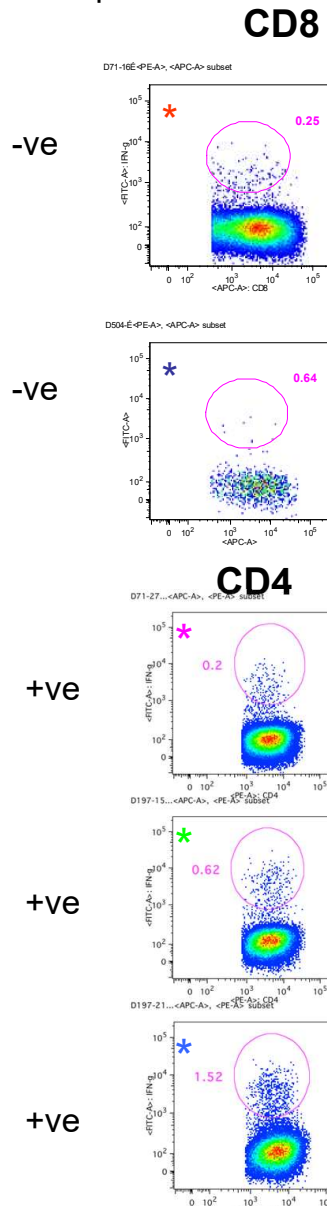
Patient information
 ID: 013-005;
 Demographics: 32yo, F
 HLA: A2,A3; B62,B37; Cw9,Cw6
 Melanoma stage: IIIb; cutaneous
 Relapse: D475
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses: 4

Anti NY-ESO-1 Aby

CD8+ responses to viral peptide pool

Summary
 CD8 response: 15^v
 CD4 response: 15^v, 21^v, 27^v
 Antibody response: p

Examples of ICS
 FACS plots



Overlapping NY-ESO-1 peptide ICS

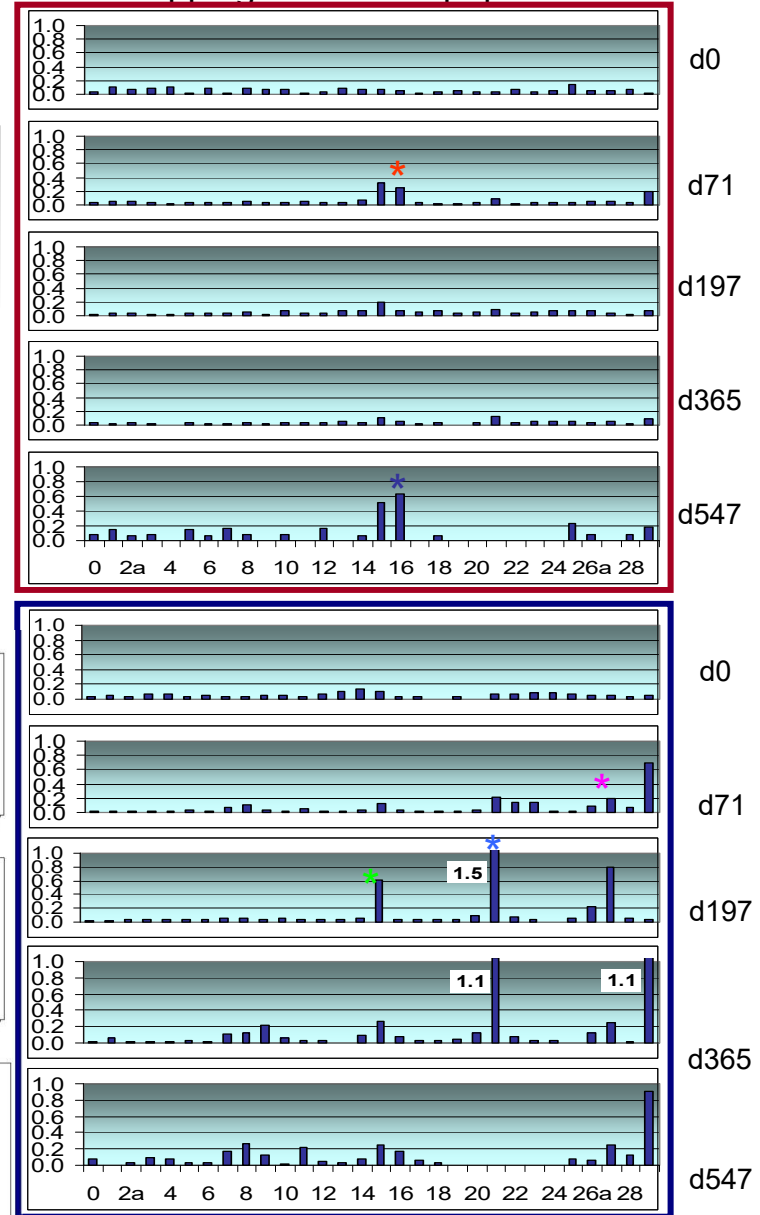
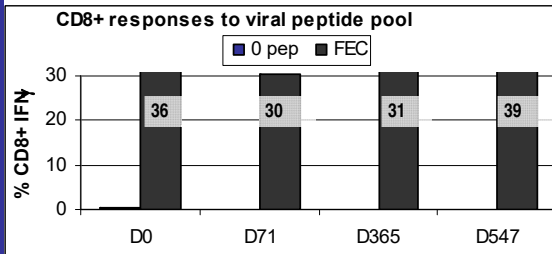
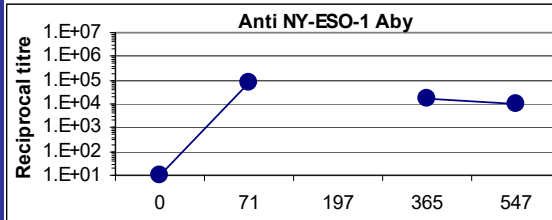


Figure S7.2

Patient information

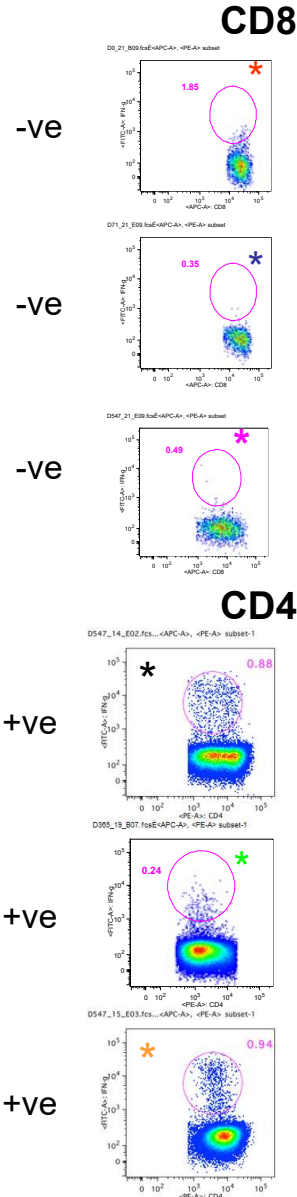
ID: 013-008;
 Demographics: 59yo, M
 HLA: A1; B8; Cw7
 Melanoma stage: IIIb; cutaneous
 Relapse: No
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses: 4



Summary

CD8 response: nil
 CD4 response: 14^v, 15^v, 18^v, 19^v, 20^v, 21^v
 Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

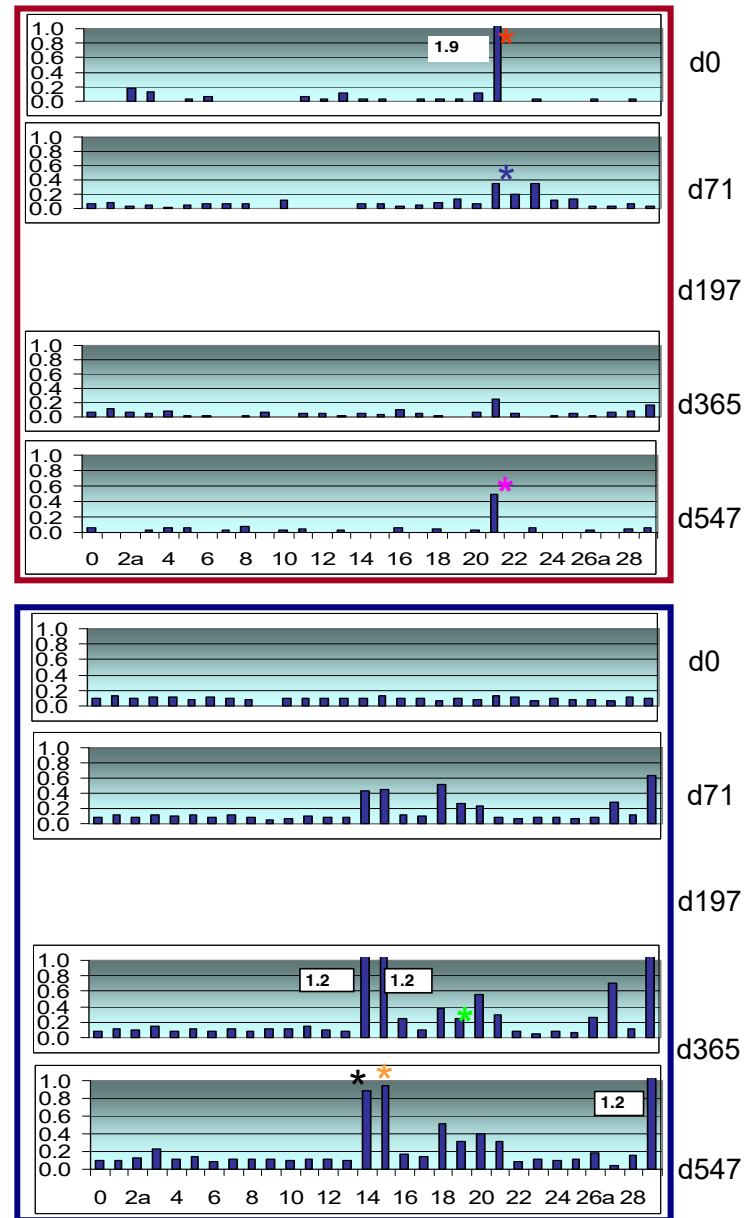


Figure S7.3

Patient information

ID: 013-009

Demographics: 44yo, M

HLA: A1, A2; B44; Cw5

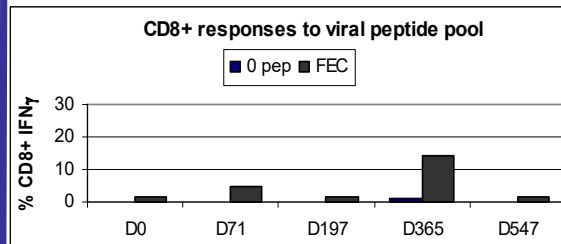
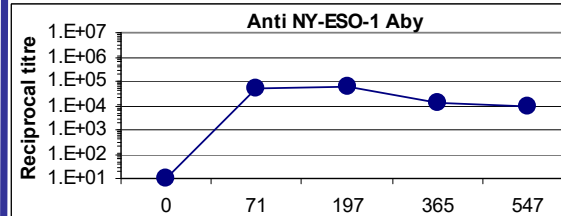
Melanoma stage: IV; cutaneous

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



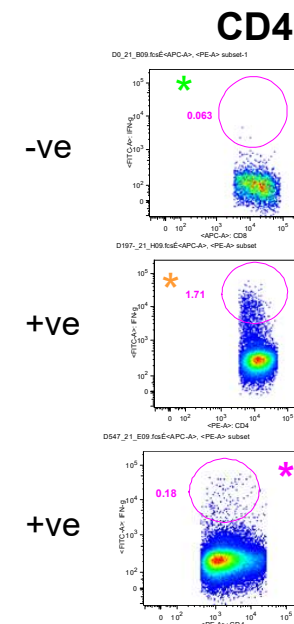
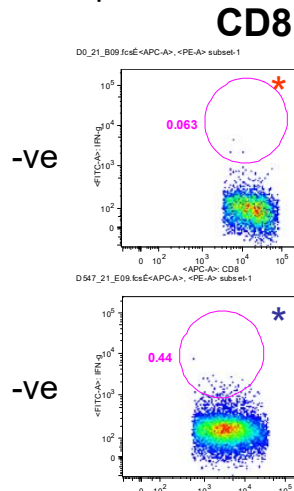
Summary

CD8 response: nil

CD4 response: 21%

Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

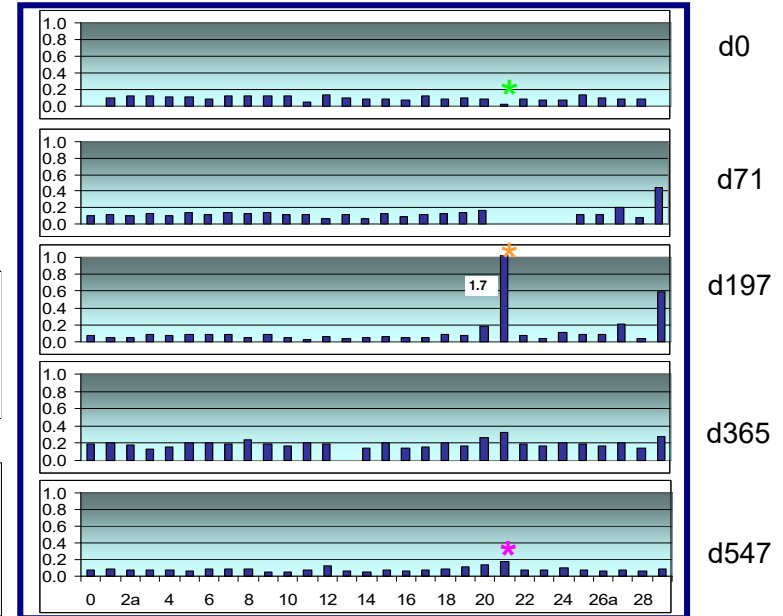
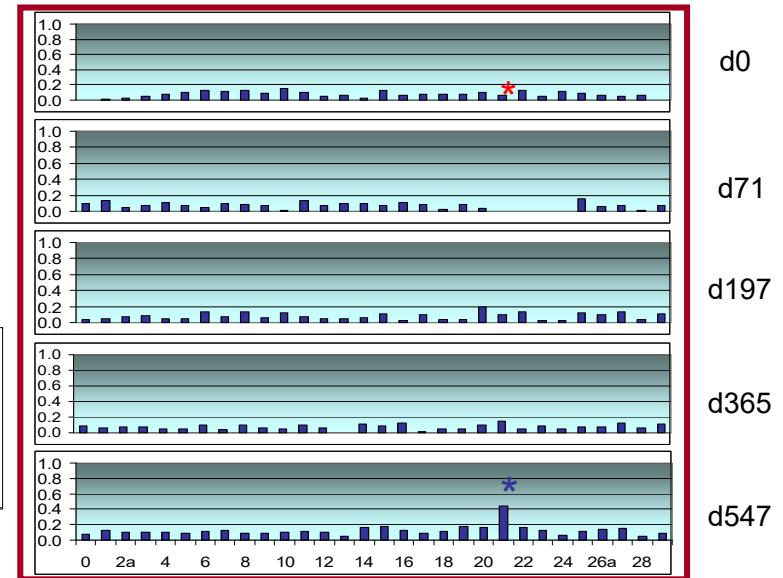


Figure S7.4

Patient information

ID: 013-010

Demographics: 53yo, F

HLA: A1, A2; B7, B18; Cw7, Cw7

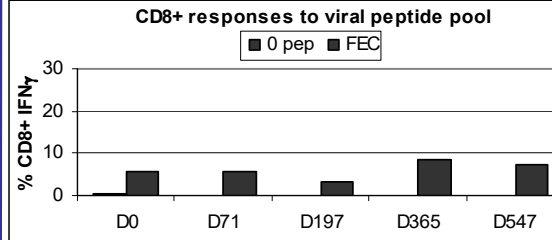
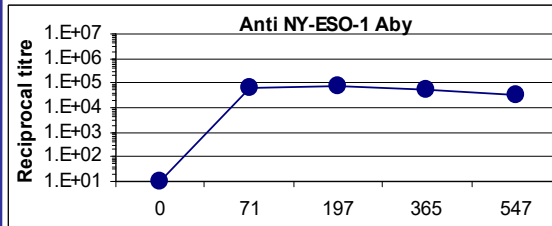
Melanoma stage: IIIb; cutaneous

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



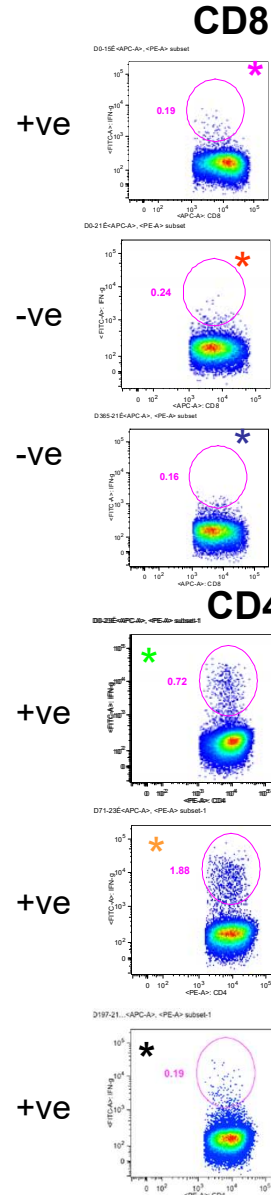
Summary

CD8 response: 15^p

CD4 response: 14v, 15v, 17v, 21v, 23^p

Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

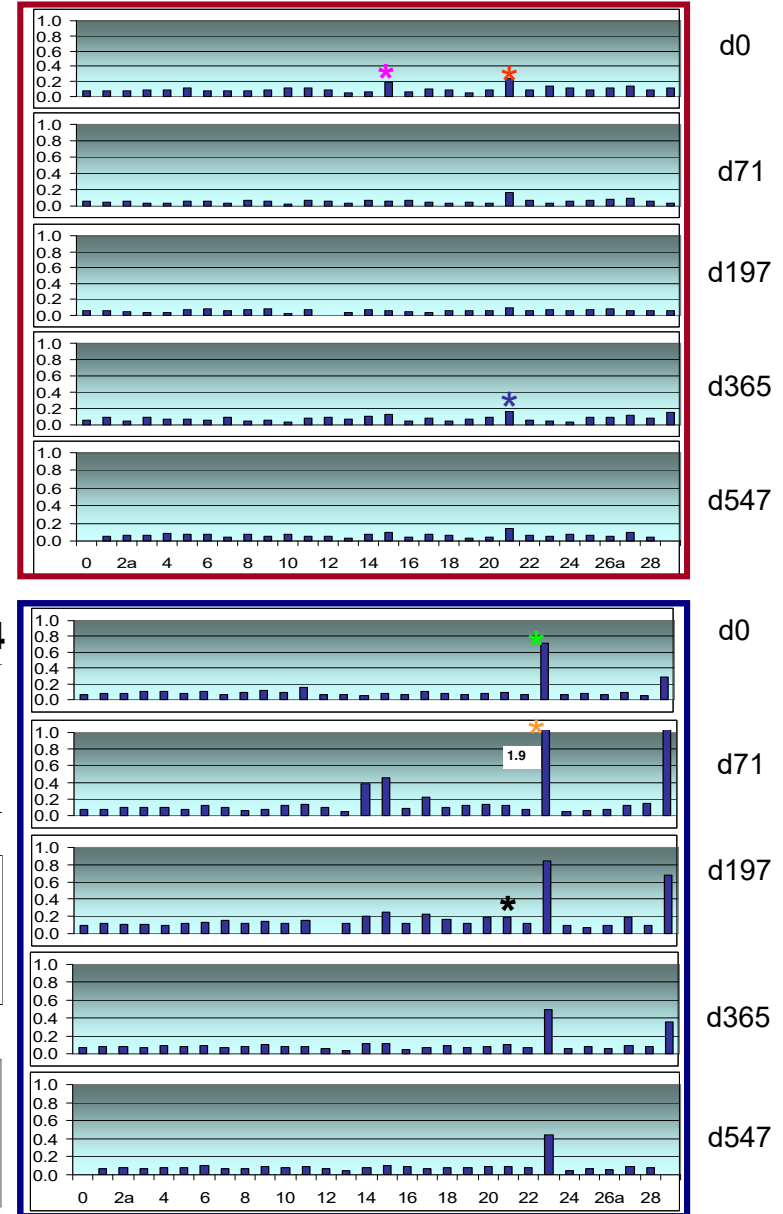
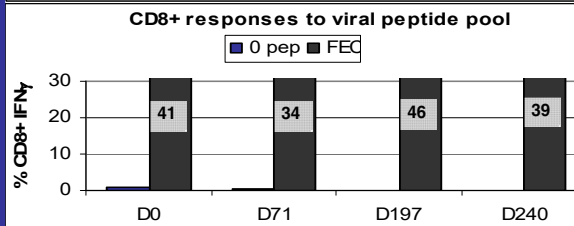
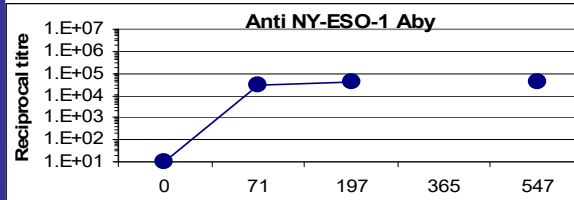


Figure S7.5

Patient information

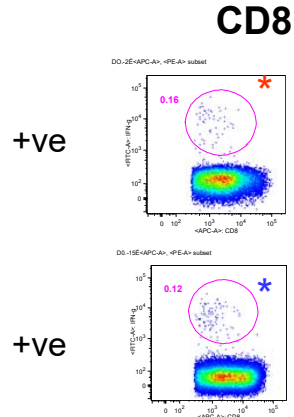
ID: 013-015
 Demographics: 42yo, M
 HLA: A2; B7; Cw7
 Melanoma stage: IIIb; cutaneous
 Relapse: Yes
 Completed vaccination: Yes
 Reason: PD D226
 No. Vaccine doses: 4
 Comments: Relapse in previous LN excision site



Summary

CD8 response: 2^p, 15^p lost post vacc
 CD4 response: 14^v, 15^v, 20^v, 21^v
 Antibody response: v

Examples of ICS FACS plots



+ve

+ve

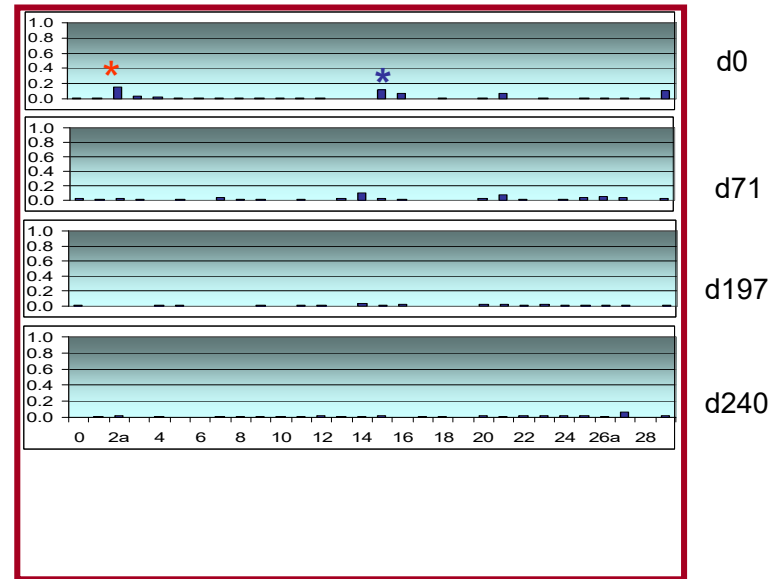
CD8

CD4

+ve

+ve

Overlapping NY-ESO-1 peptide ICS

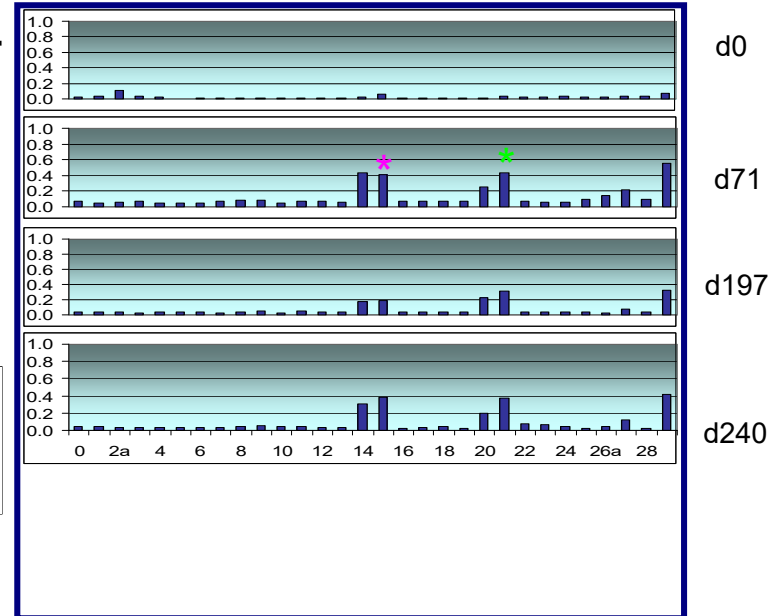


d0

d71

d197

d240



d0

d71

d197

d240

Figure S7.6

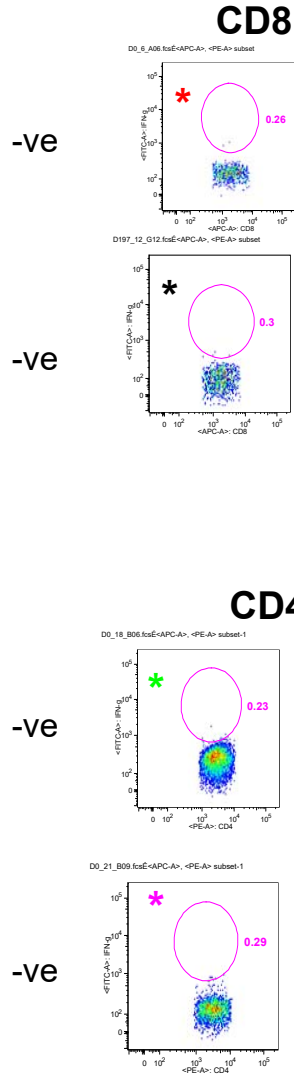
Patient information
 ID: 014-004
 Demographics: 52yo, F
 HLA: A9201; B27, B8; Cw2, Cw3
 Melanoma stage: IV;
 Relapse: D546 (EOS)
 Completed vaccination: Yes
 No. Vaccine doses: 4

Anti NY-ESO-1 Aby

CD8+ responses to viral peptide pool

Summary
 CD8 response: nil
 CD4 response: 15^v, 16^v, 17^v, 18^v, 19^v, 21^v
 Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

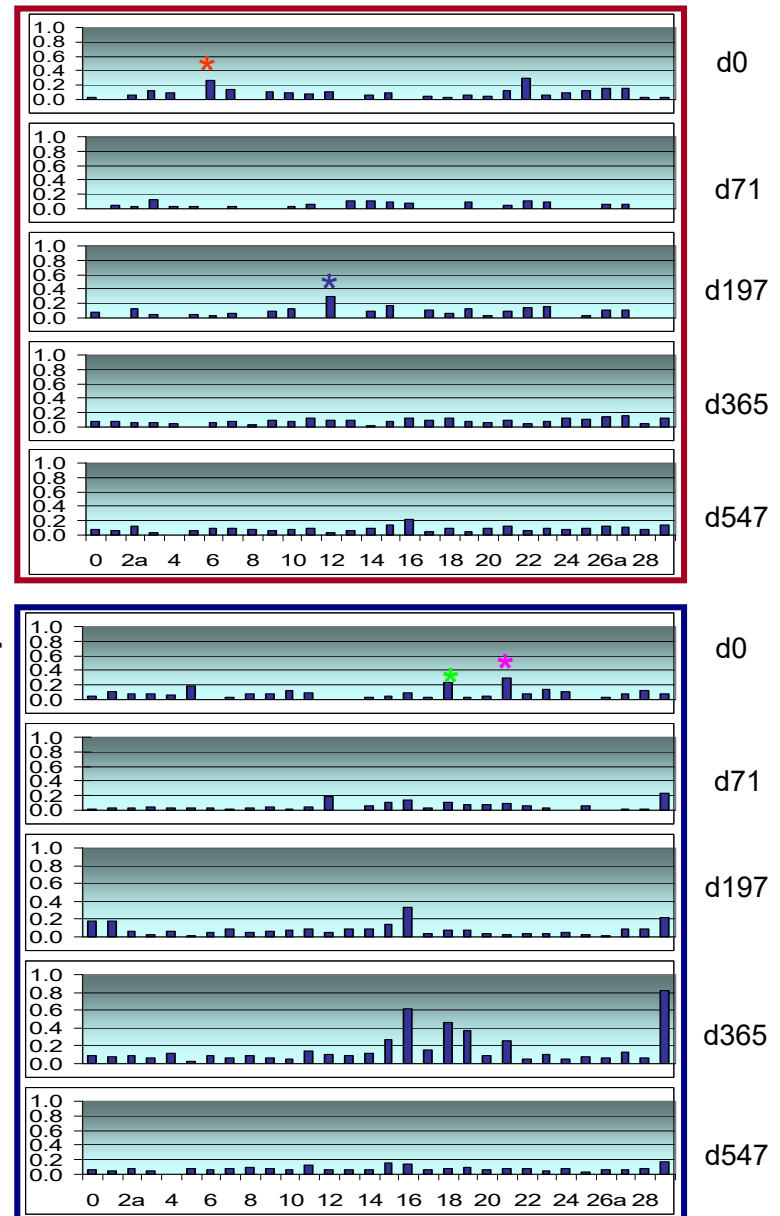


Figure S7.7

Patient information

ID: 014-009

Demographics: 74yo, M

HLA: A3, A29; B44

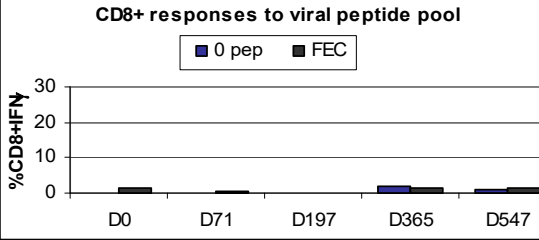
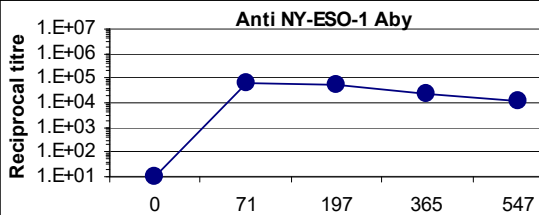
Melanoma stage:IIIb

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



Summary

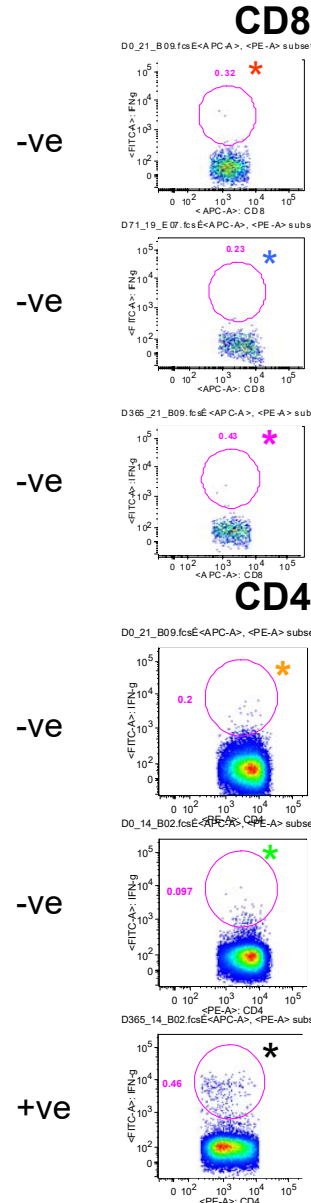
CD8 response: Nil. High background

background

CD4 response: 14%, 20%, 21%

Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

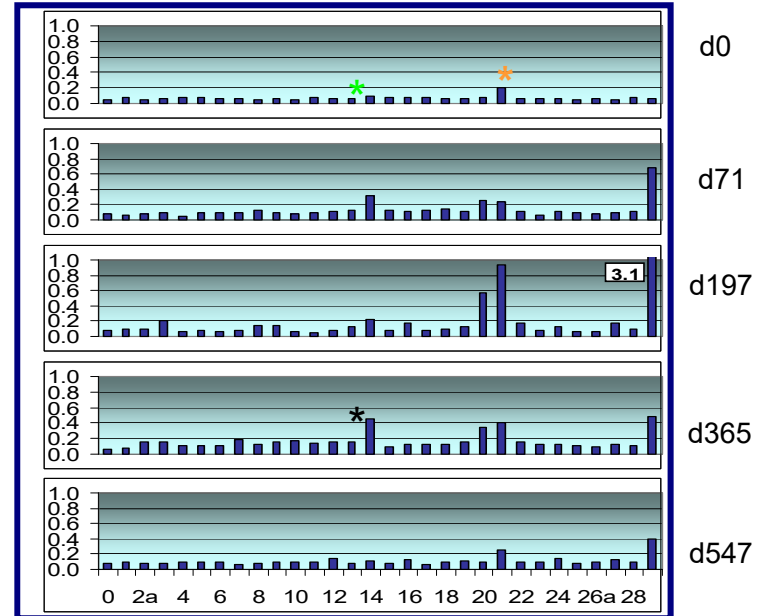
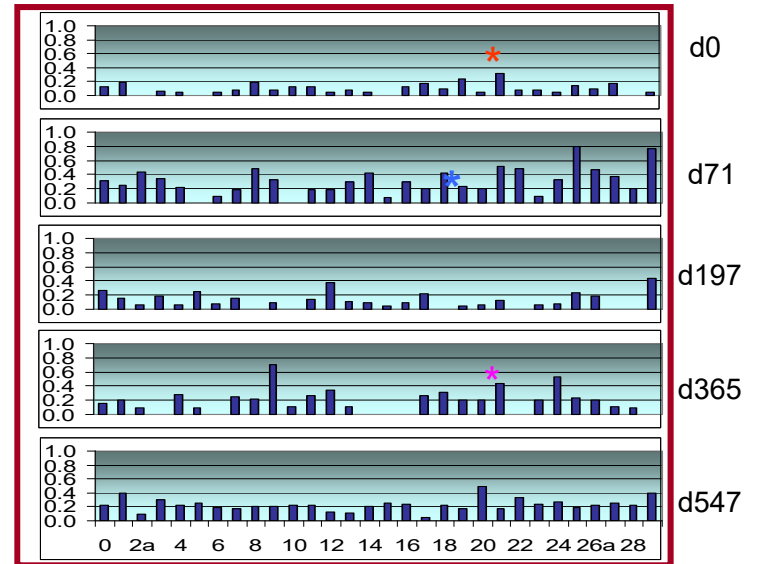
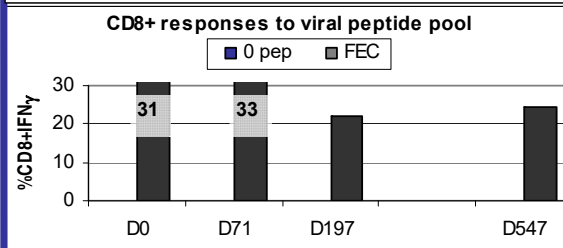
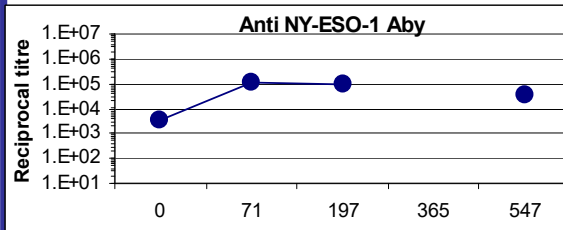


Figure S7.8

Patient information

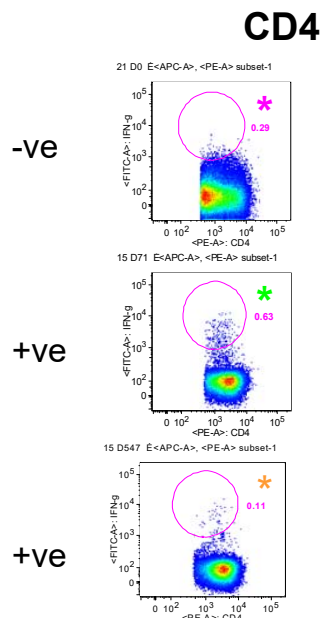
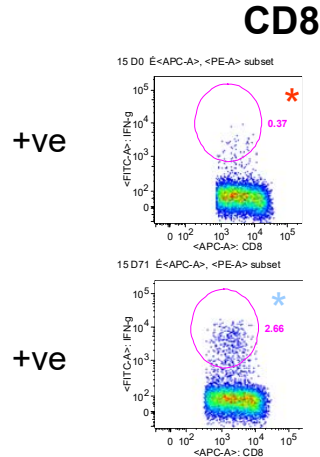
ID: 014-010;
 Demographics: 32yo, M
 HLA: A2, A11; B51; Cw4
 Melanoma stage: IV
 Relapse: No
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses: 4



Summary

CD8 response: 15^p, 16^p
 CD4 response: 15^p
 Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

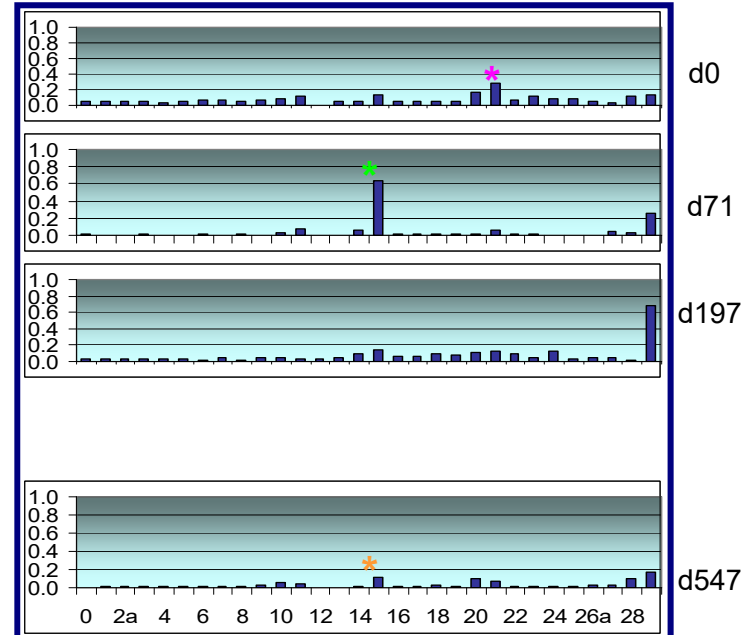
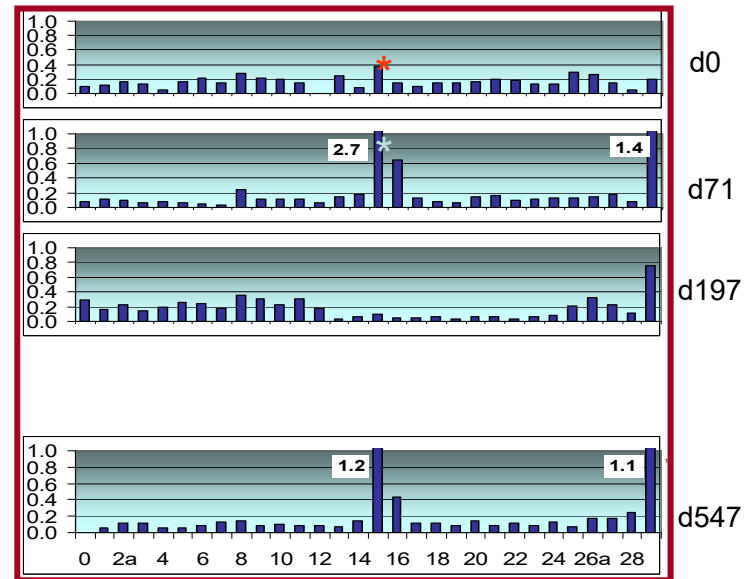
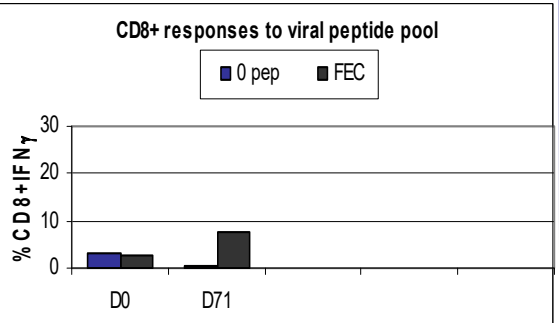
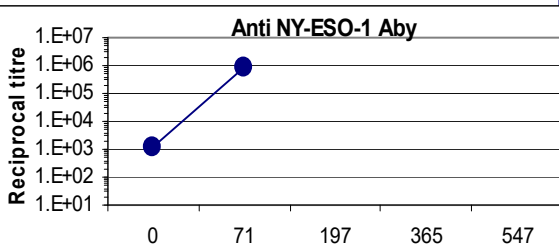


Figure S7.9

Patient information

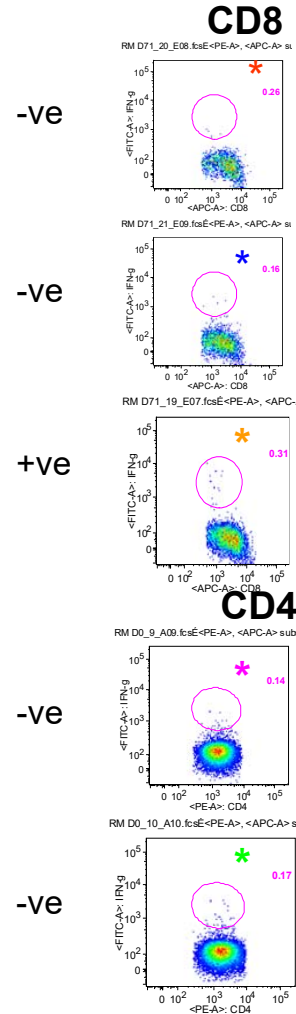
ID: 014-013
 Demographics: 74yo,M
 HLA:A24,A30; B7,B18; Cw5,Cw7
 Melanoma stage: IIIc;
 Relapse: Yes
 Completed vaccination: No
 Reason: PD D99
 No. Vaccine doses: 3



Summary

CD8 response: 12^v, 19^v, 23^v, 24^v
 CD4 response: 20^p, 21^p
 Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

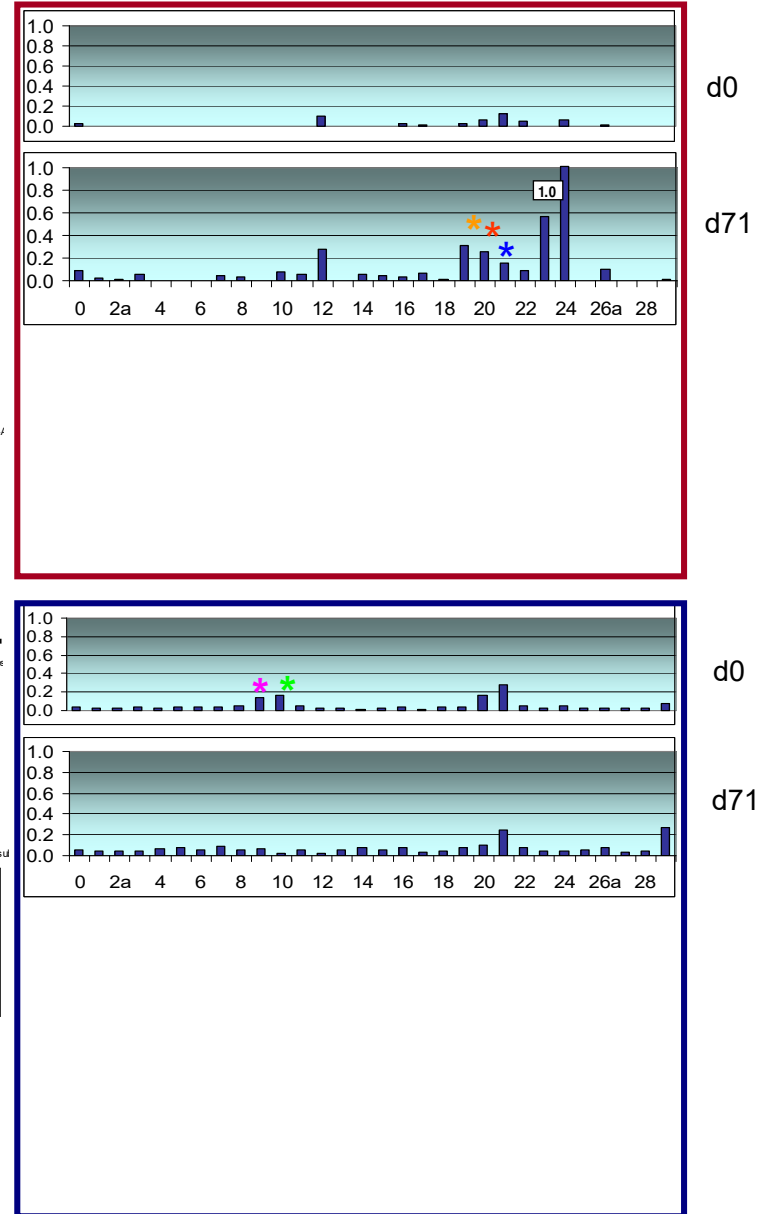


Figure S7.10

Patient information

ID: 062-005

Demographics: 50yo, M

HLA: A2; B15, B27;

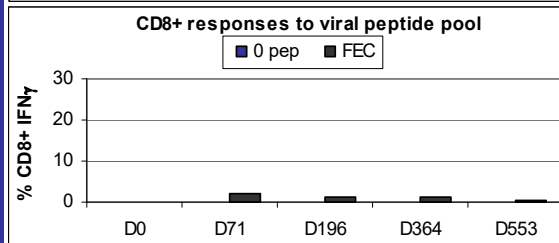
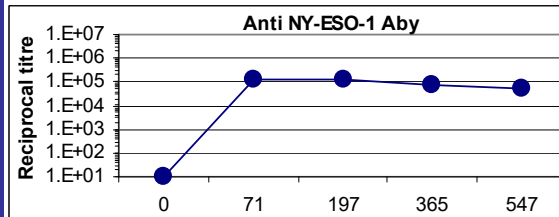
Melanoma stage: IIIb

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



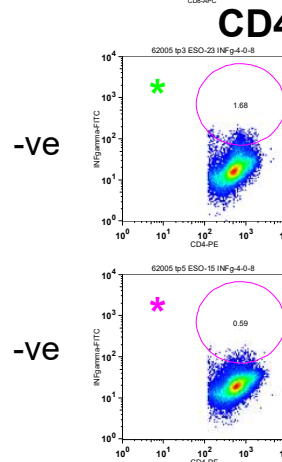
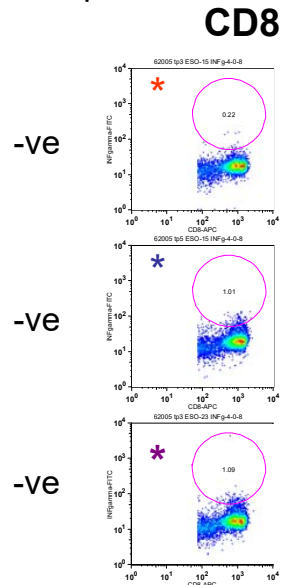
Summary

CD8 response: 21v, 26v

CD4 response: 21v, 26v

Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

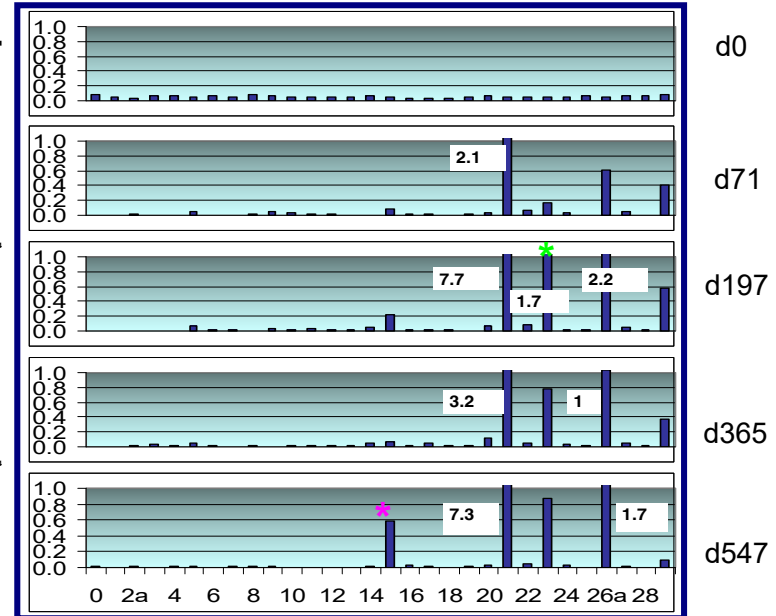
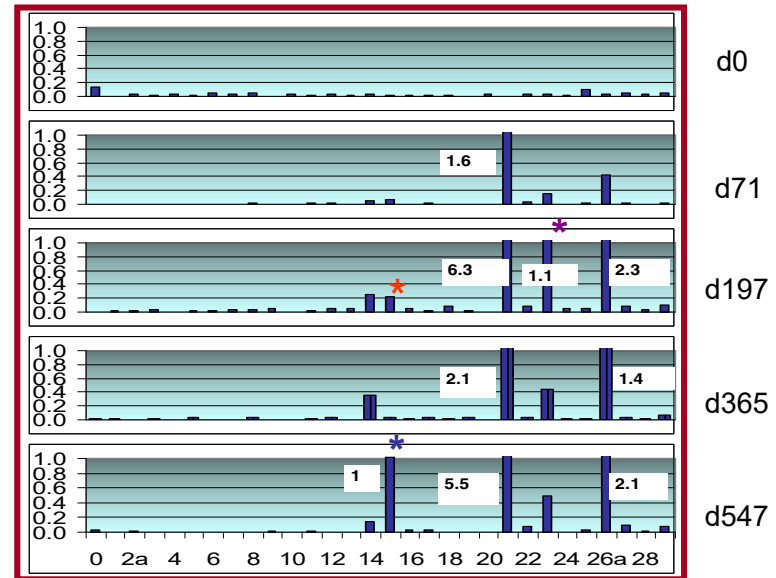


Figure S7.11

Patient information

ID: 062-006

Demographics: 55yo, F

HLA: A2; B44

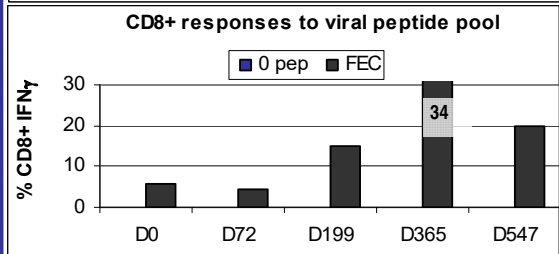
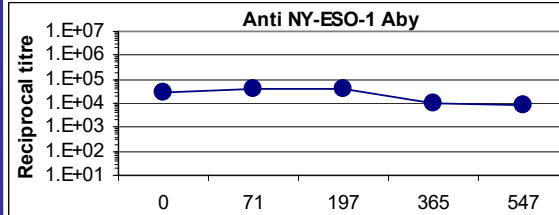
Melanoma stage: IV

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



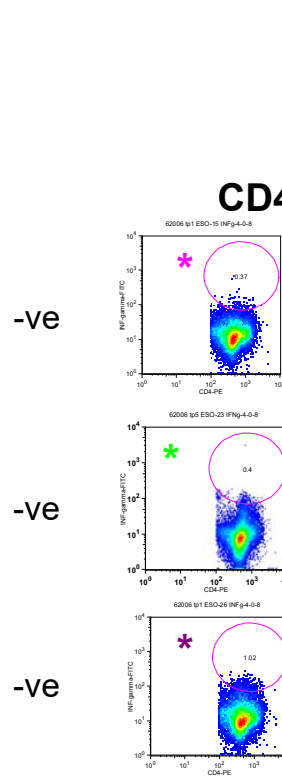
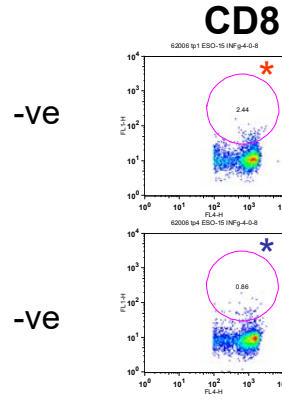
Summary

CD8 response: 21p, 26p

CD4 response: 21p

Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

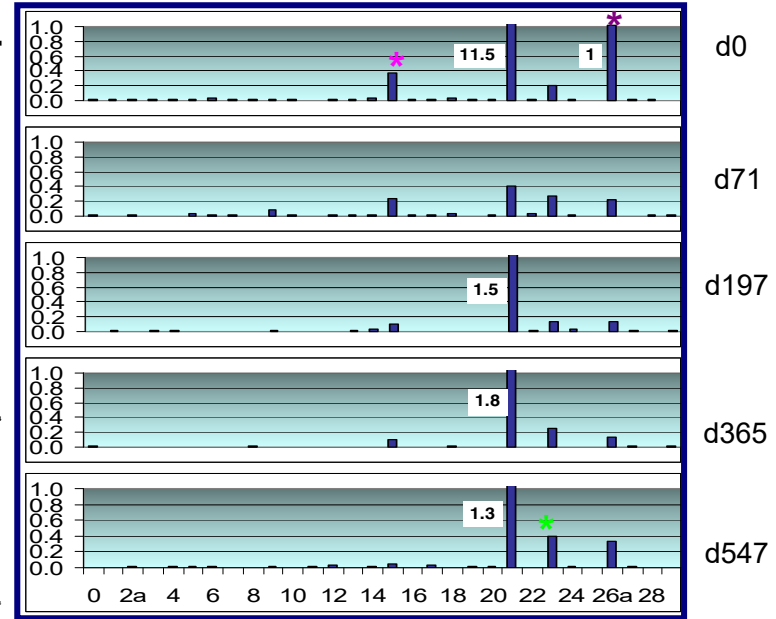
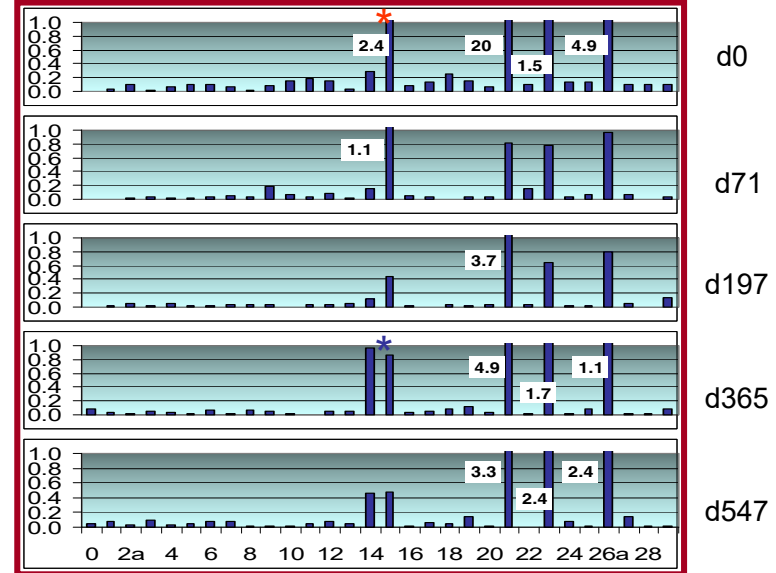


Figure S7.12

Patient information

ID: 054-001

Demographics: 61yo, F

HLA: A2; B35, B44; Cw5, Cw6

Melanoma stage: IIIc

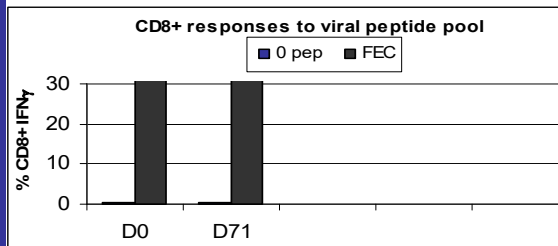
Relapse: Yes Off study D70

Completed vaccination: No

Reason: (if no) PD D14

No. Vaccine doses: 3

No antibody titration



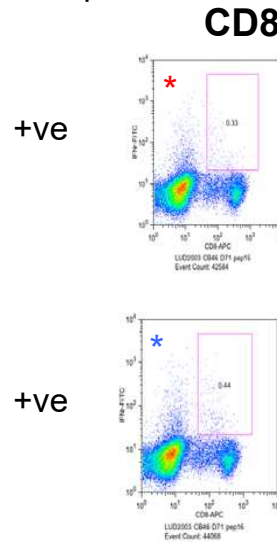
Summary

CD8 response: 15^v, 16^v

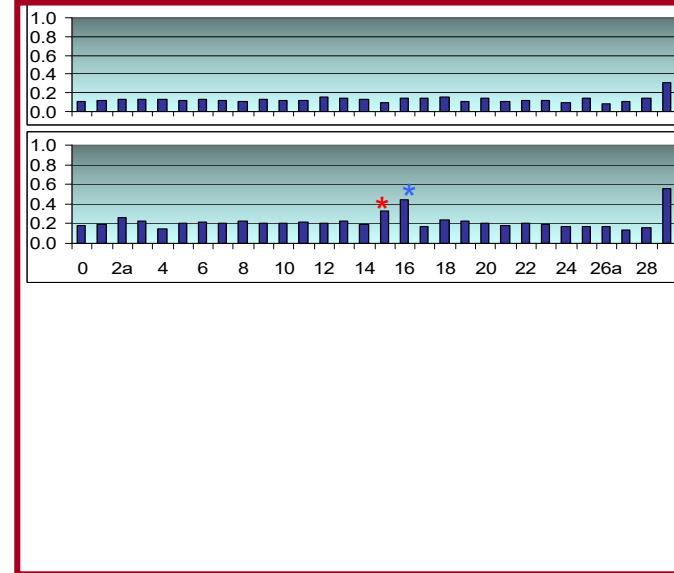
CD4 response: nil

Antibody response: NT

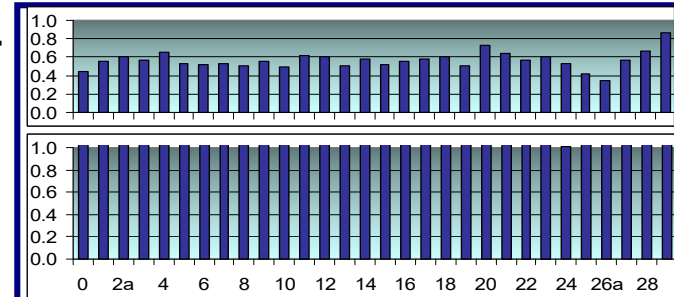
Examples of ICS
FACS plots



Overlapping NY-ESO-1 peptide ICS



CD4



All D71 CD4 responses 1.0-1.6%

Figure S7.13

Examples of ICS
FACS plots

Overlapping NY-ESO-1 peptide ICS

Patient information
 ID: 063-001
 Demographics: 48yo, M
 HLA: ND
 Melanoma stage: IIIb
 Relapse: Yes. Off study D183
 Completed vaccination: No
 Reason: PD D28
 No. Vaccine doses: 3

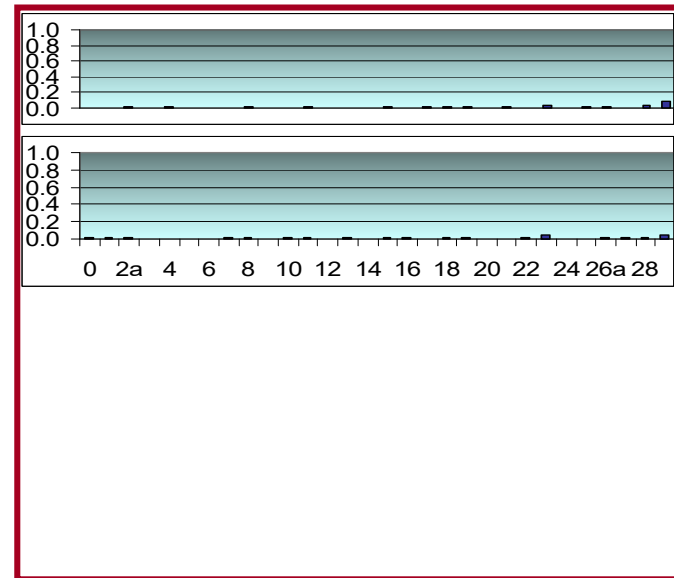
Anti NY-ESO-1 Aby

CD8+ responses to viral peptide pool

Legend: 0 pep (blue), FEC (black)

Summary
 CD8 response: nil
 CD4 response: nil
 Antibody response: v

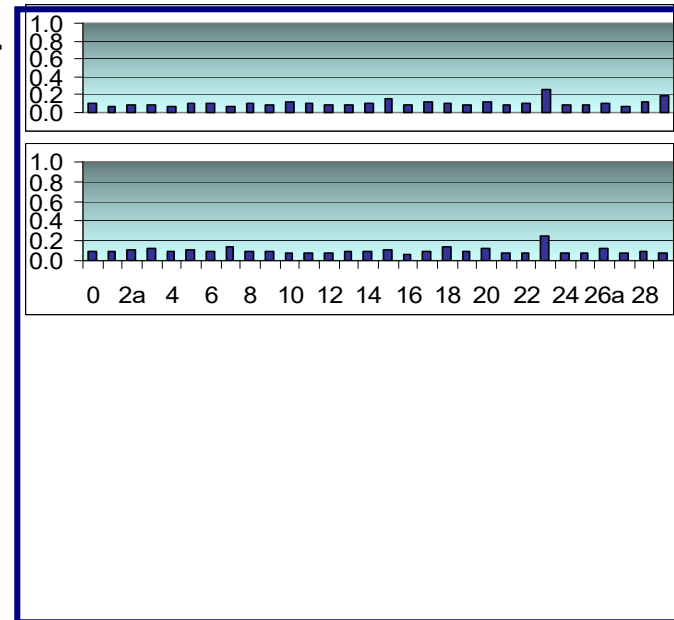
CD8



d0

d71

CD4



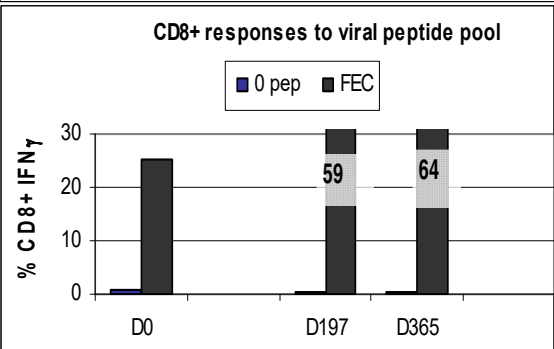
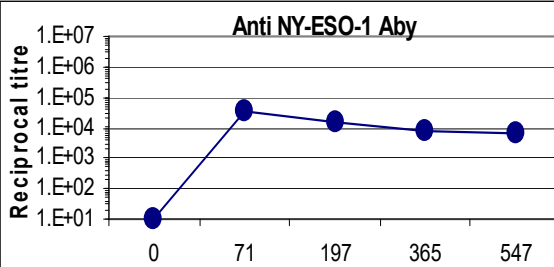
d0

d71

Figure S7.14

Patient information

ID: 063-004
 Demographics: 55yo, M
 HLA: A2; B8;
 Melanoma stage: IIIc
 Relapse: No
 Completed vaccination: Yes
 No. Vaccine doses:4



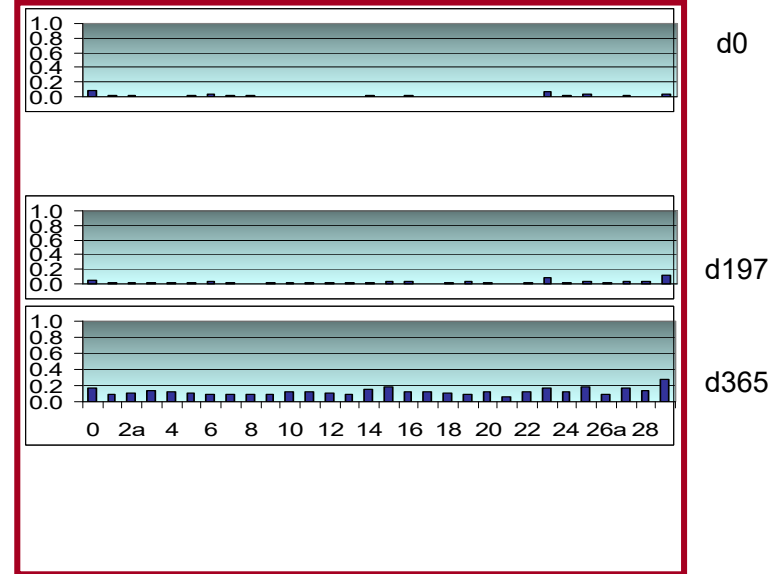
Summary

CD8 response: nil
 CD4 response: nil
 Antibody response: v

Examples of ICS
 FACS plots

Overlapping NY-ESO-1 peptide ICS

CD8



CD4

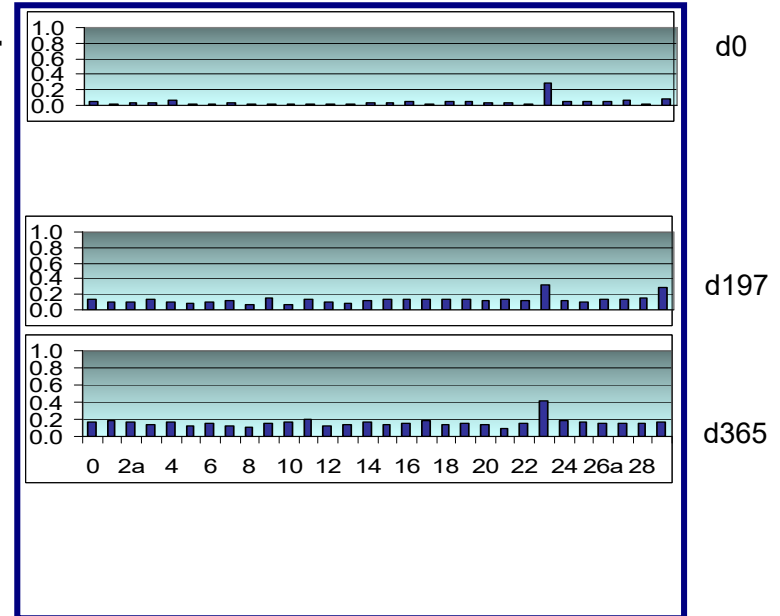


Figure S7.15

Patient information

ID: 063-005

Demographics: 63yo, M

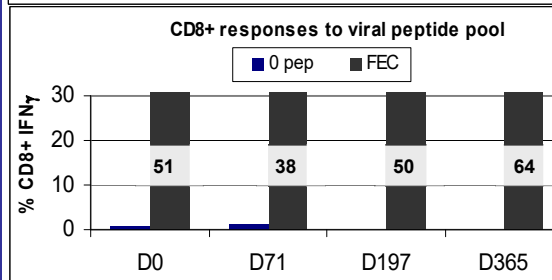
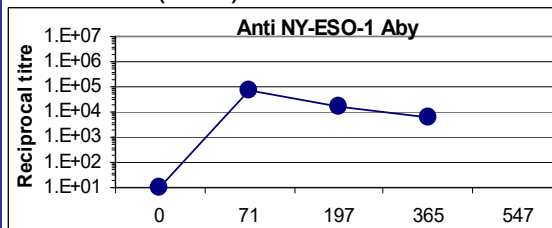
HLA: A24, A29; B15, B35; Cw3, Cw4

Melanoma stage: IIIb

Relapse: No

Completed vaccination: Yes

Reason: (if no)



Summary

CD8 response: nil

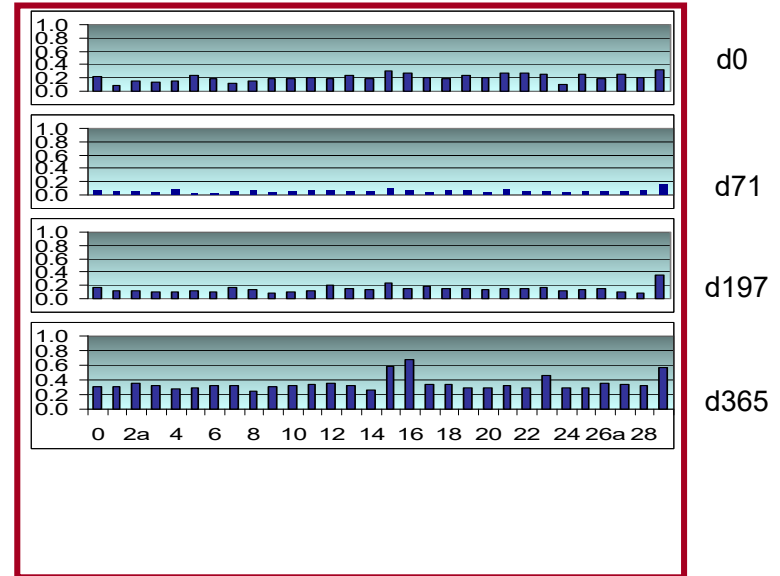
CD4 response: nil high background

Antibody response: v

Examples of ICS
FACS plots

Overlapping NY-ESO-1 peptide ICS

CD8



CD4

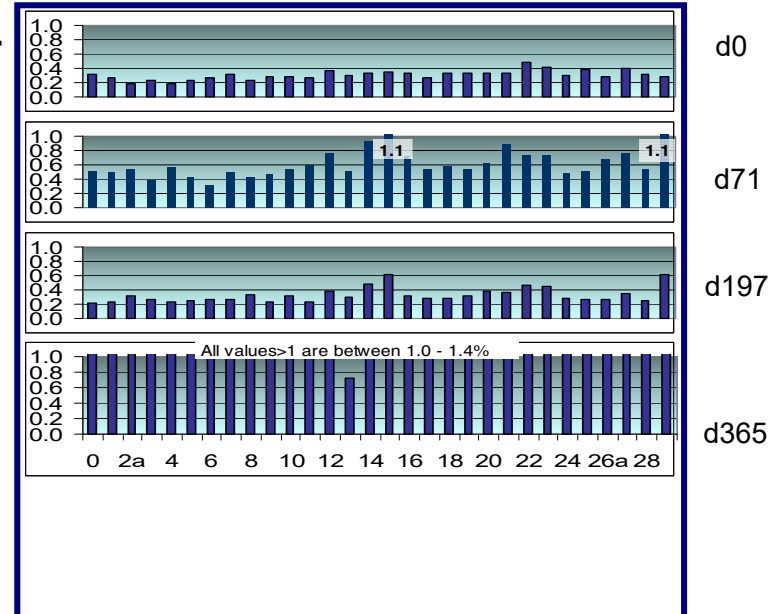


Figure S7.16

Patient information
 ID: 074-002
 Demographics: 51yo, M
 HLA: A0203, A25; B18;
 Melanoma stage: IIIb
 Relapse: No
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses:4

Anti NY-ESO-1 Aby

Time Point	Reciprocal titre
0	~1.E+01
71	~1.E+05
197	~1.E+05
365	~1.E+04
547	~1.E+04

CD8+ responses to viral peptide pool

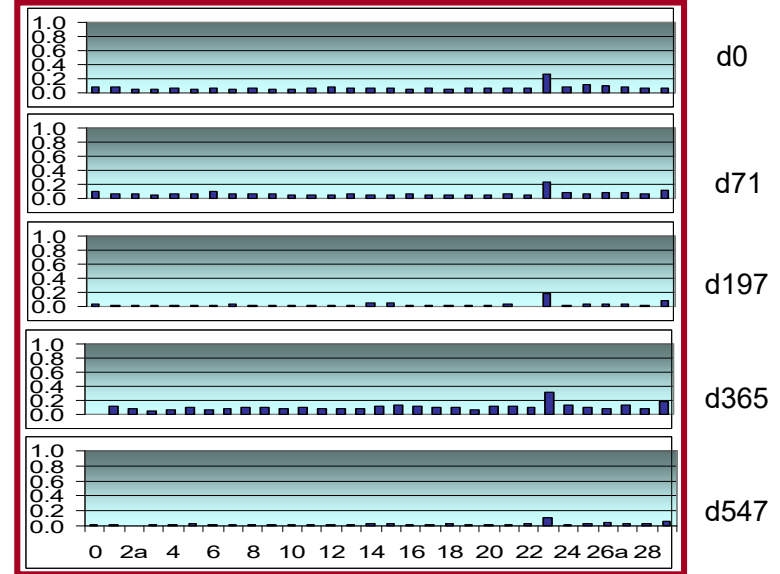
Time Point	FEC	0 pep
D0	44	0
D71	50	0
D197	58	0
D365	54	0
D547	52	0

Summary
 CD8 response: nil
 CD4 response: 14^v, 15^v
 Antibody response: v

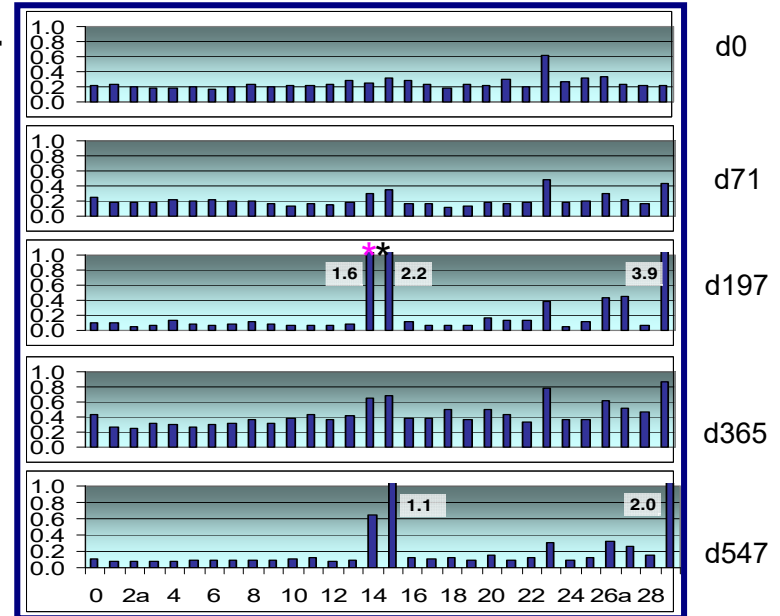
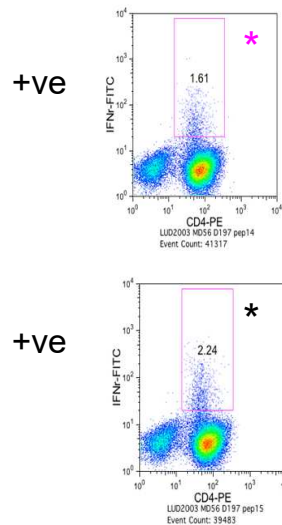
Examples of ICS
 FACS plots

CD8

Overlapping NY-ESO-1 peptide ICS



CD4



- ISCOMATRIX cohort

Figure S7.17

Patient information

ID: 013-004

Demographics: 33yo, F

HLA:A32,A68;B62,B51;Cw9,Cw15

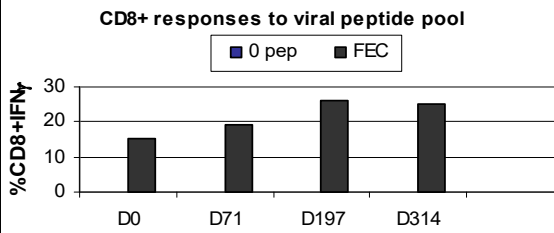
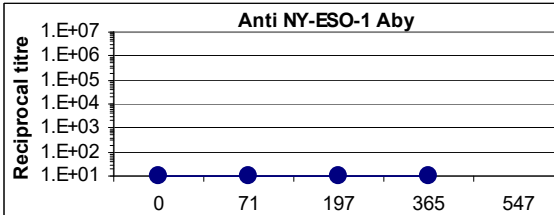
Melanoma stage: IV; unknown primary

Relapse: Yes

Completed vaccination: Yes

Reason: PD D313

No. Vaccine doses: 4



Summary

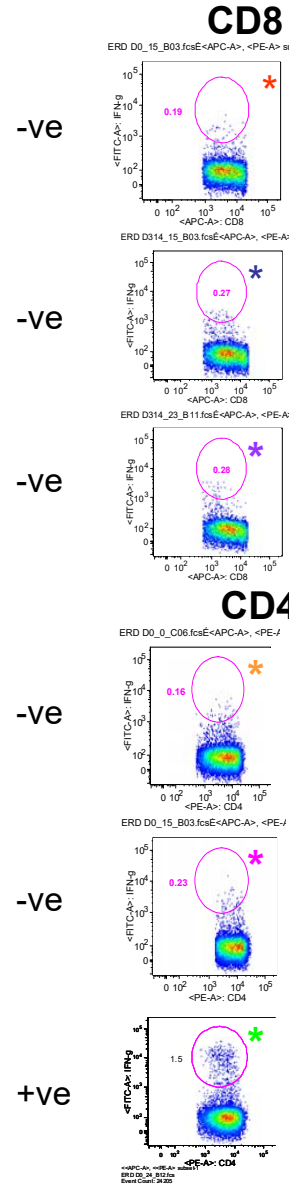
CD8 response: nil

CD4 response: 20^p, 21^p, 22^p, 24^p

Hi BG

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

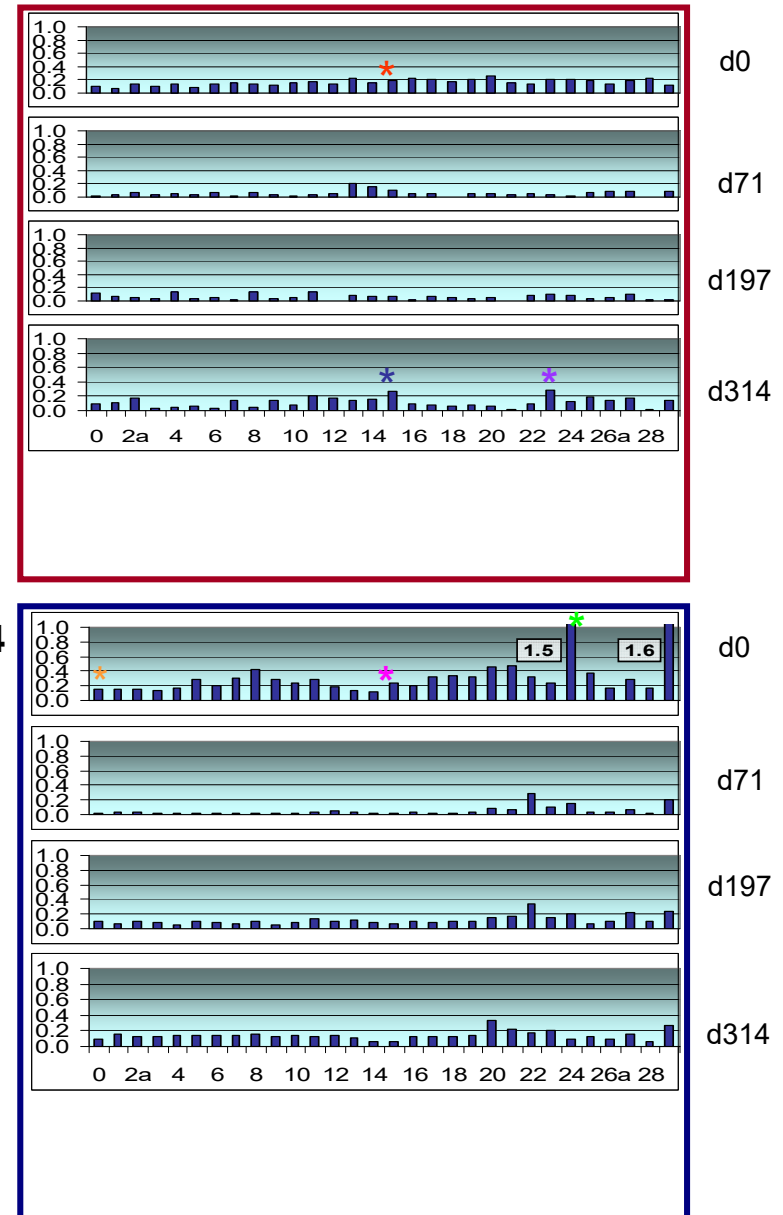


Figure S7.18

Patient information

ID: 013-006

Demographics: 64yo,M

HLA:A1,A11; B15,B27; Cw1,Cw9

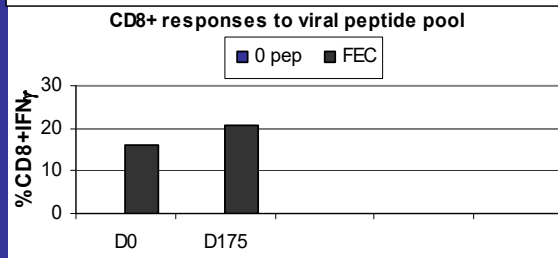
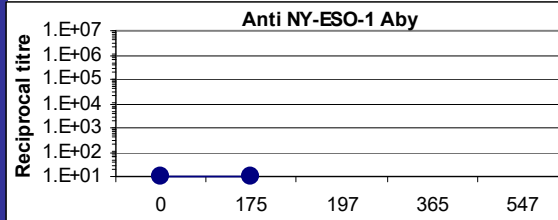
Melanoma stage: IIIc; cutaneous

Relapse: Yes

Completed vaccination: No

Reason: PD D169

No. Vaccine doses: 3



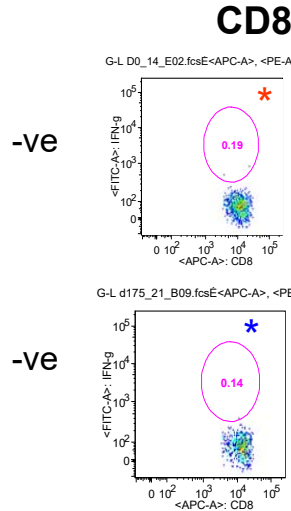
Summary

CD8 response: nil

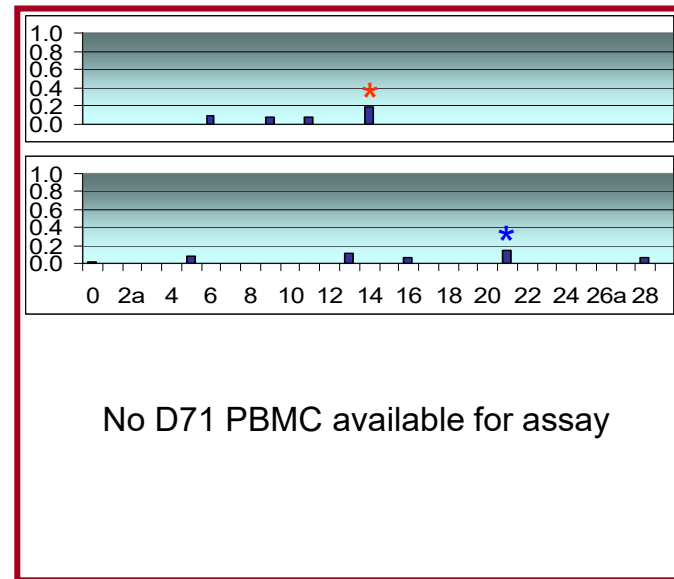
CD4 response: nil

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS



CD4

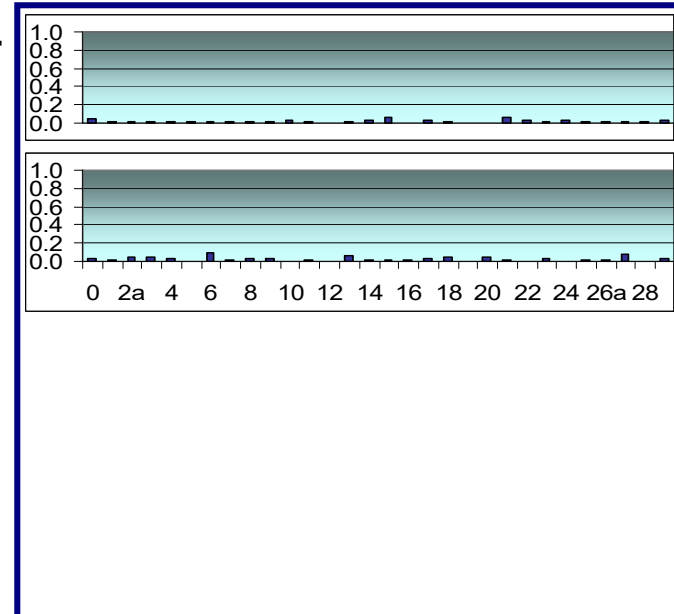


Figure S7.19

Patient information

ID: 013-007

Demographics: 81yo, M

HLA: A1, A2; B8, B50; Cw6, Cw7

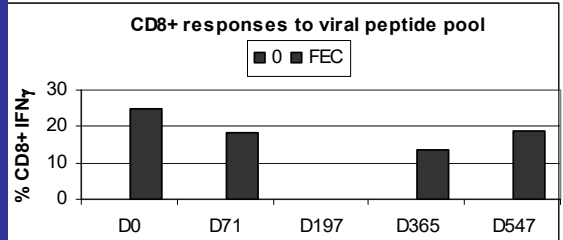
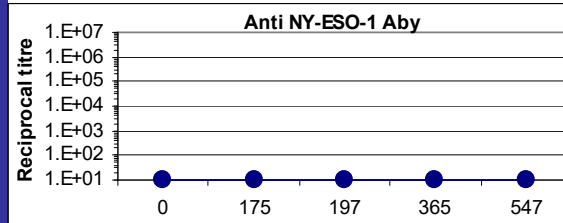
Melanoma stage: IIc; cutaneous

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



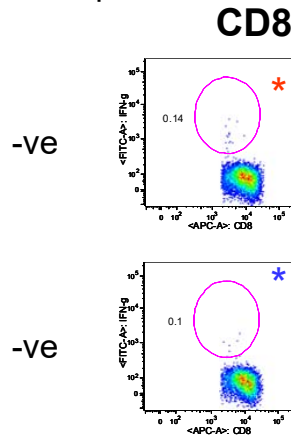
Summary

CD8 response: nil.

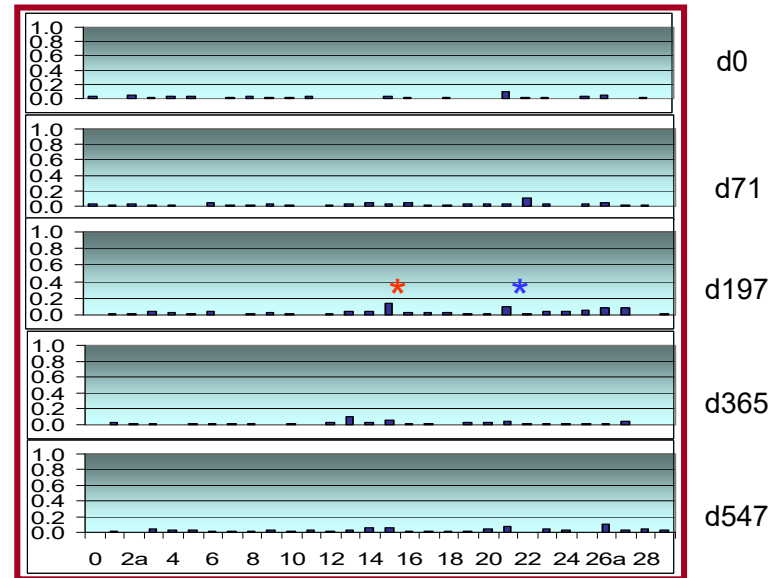
CD4 response: nil

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS



CD4

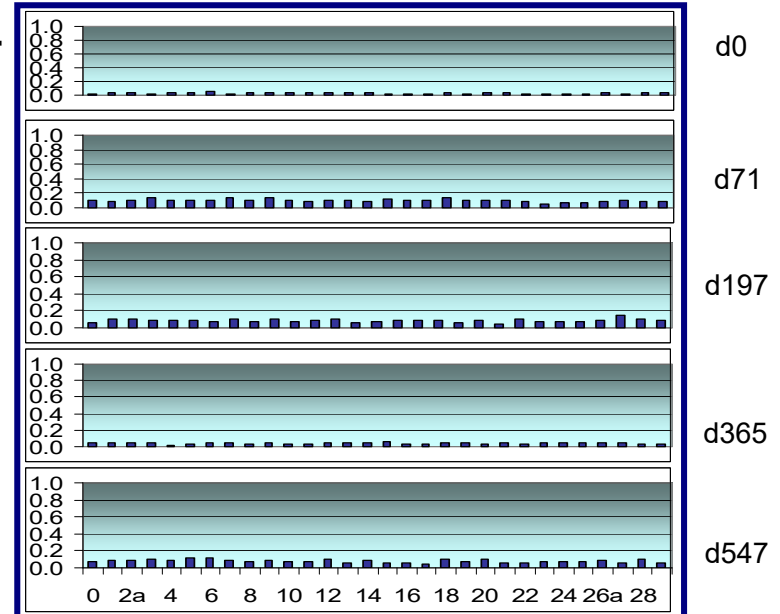


Figure S7.20

Patient information

ID: 013-011

Demographics: 58yo, F

HLA: A3,A23; B7,B44; Cw4, Cw7

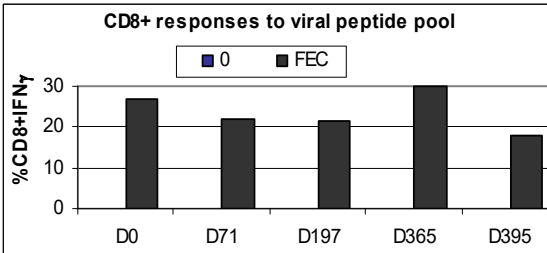
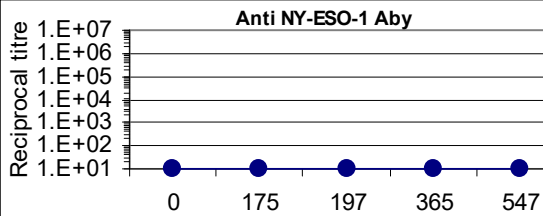
Melanoma stage: IIIc; cutaneous

Relapse: Yes

Completed vaccination: Yes

Reason: PD D378

No. Vaccine doses: 4



Summary

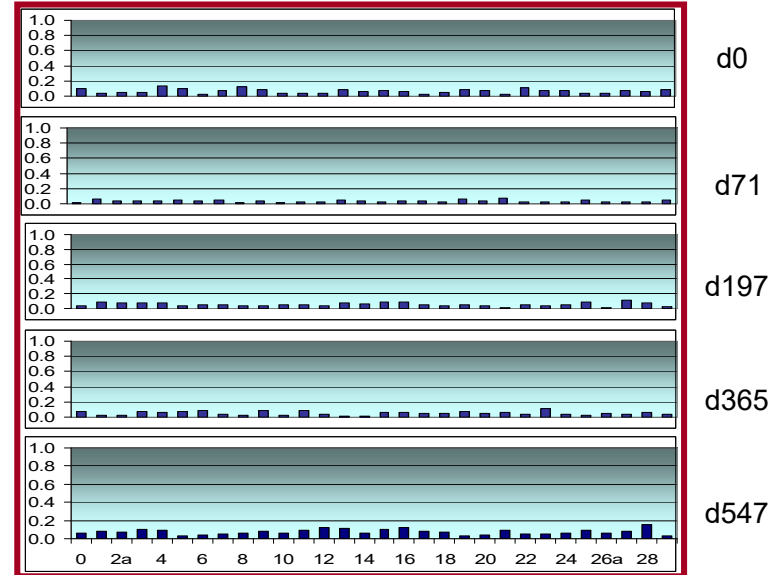
CD8 response: nil

CD4 response: nil

Antibody response: nil

Examples of ICS
FACS plots

CD8



CD4

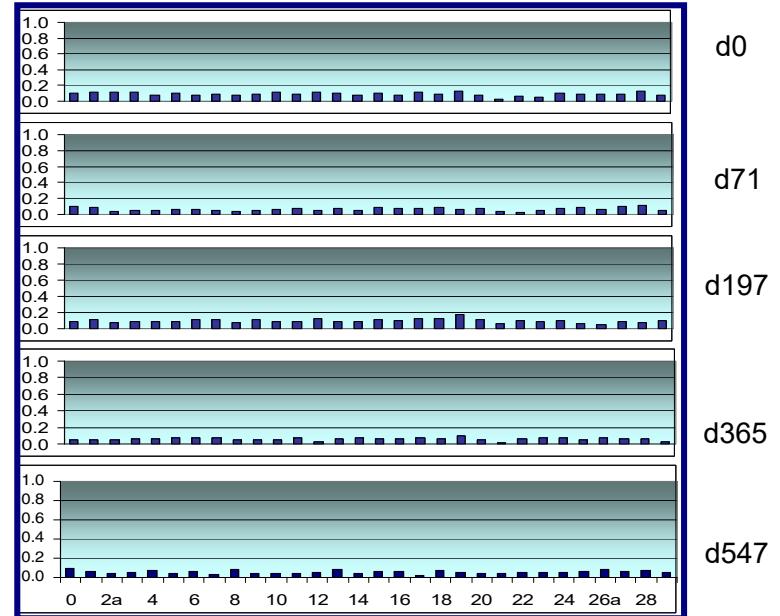


Figure S7.21

Patient information

ID: 013-012

Demographics: 69yo, F

HLA: A2; B39, B60; Cw10, Cw12

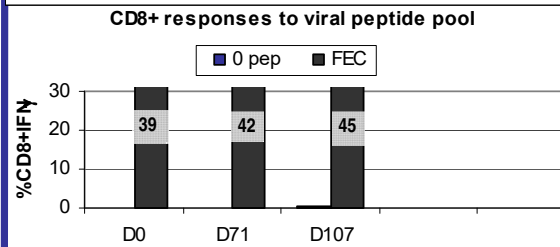
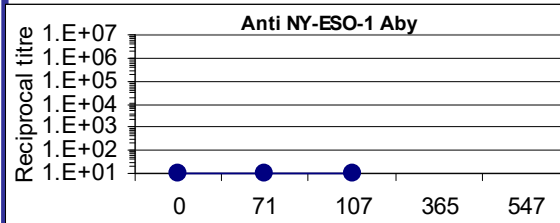
Melanoma stage: IIIc; cutaneous

Relapse: Yes

Completed vaccination: No.

Reason: PD D83

No. Vaccine doses: 3



Summary

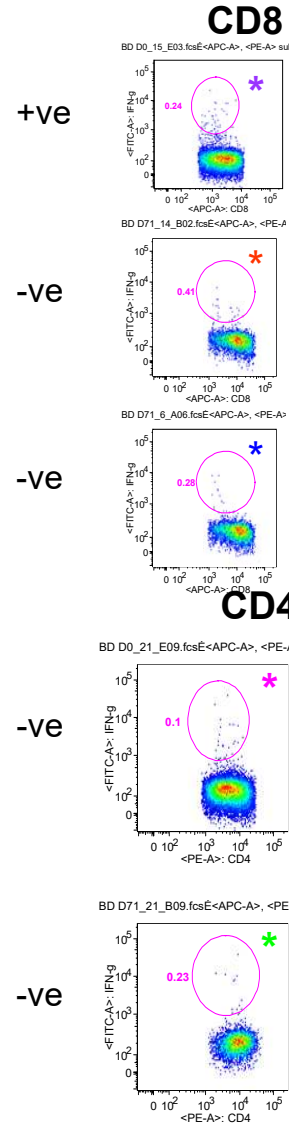
CD8 response: 15^p, 25^p high background

D107

CD4 response: nil

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

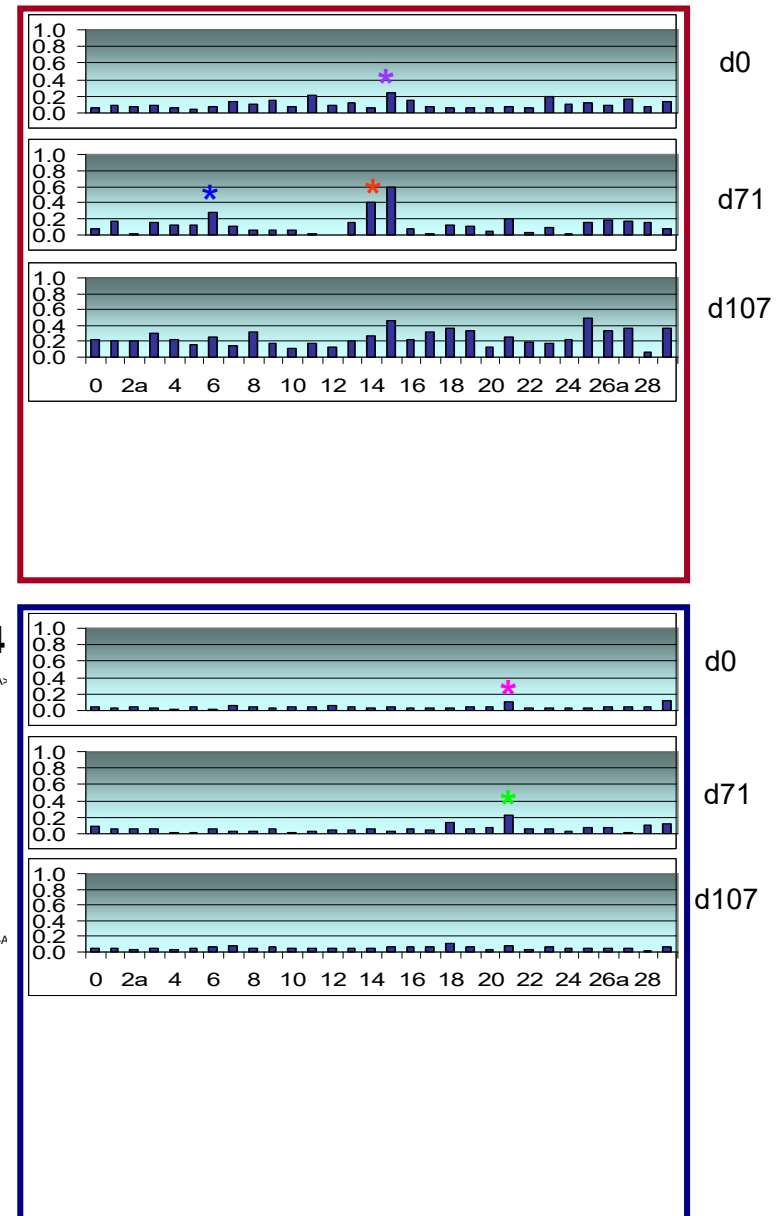
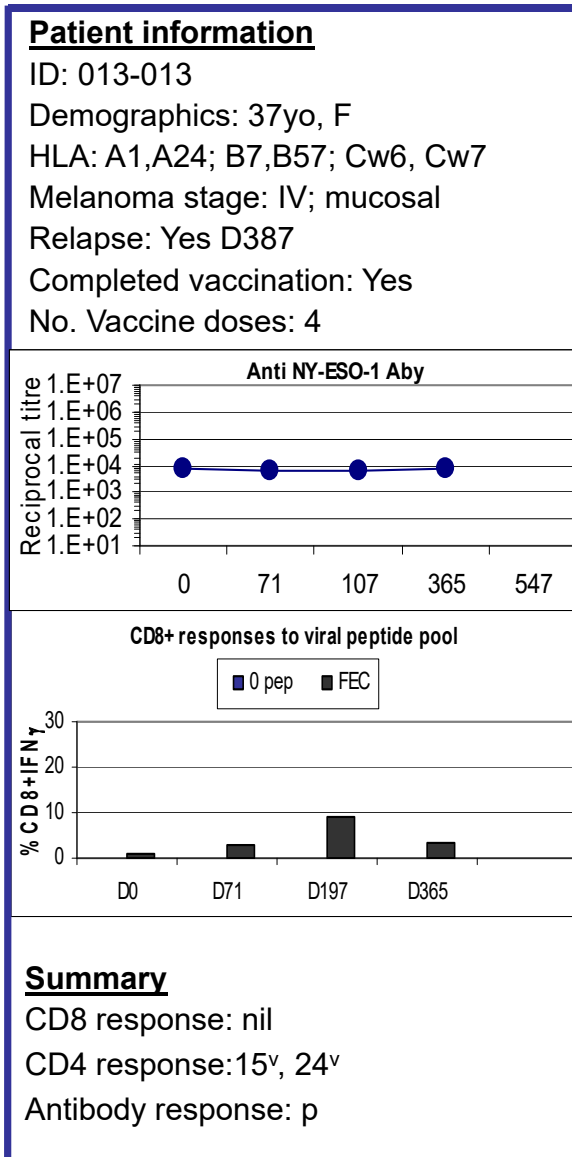


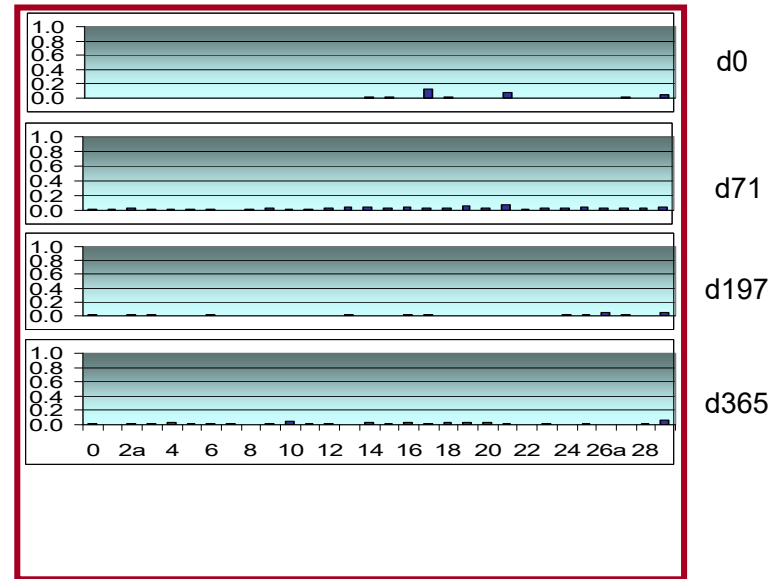
Figure S7.22



Examples of ICS
 FACS plots

Overlapping NY-ESO-1 peptide ICS

CD8



CD4

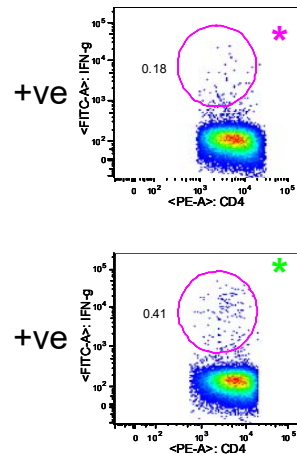
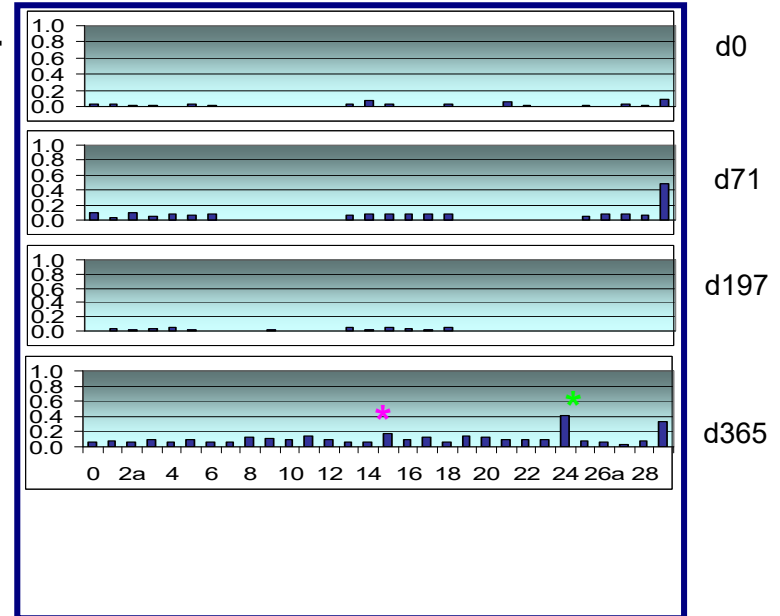


Figure S7.23

Patient information

ID: 013-014

Demographics: 35yo, F

HLA:A2,A80; B62,B58; Cw3,Cw7

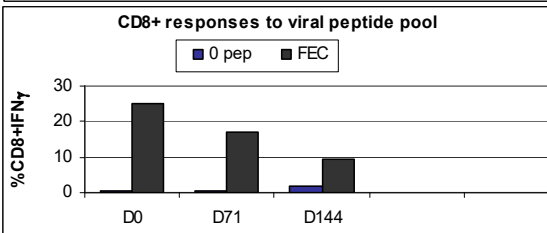
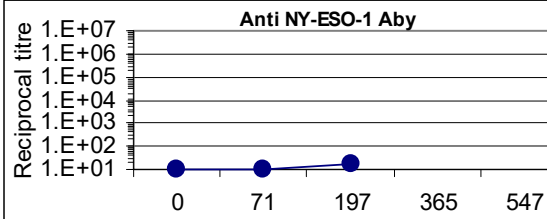
Melanoma stage: IV; cutaneous

Relapse: Yes

Completed vaccination: No

Reason: PD D127

No. Vaccine doses: 3

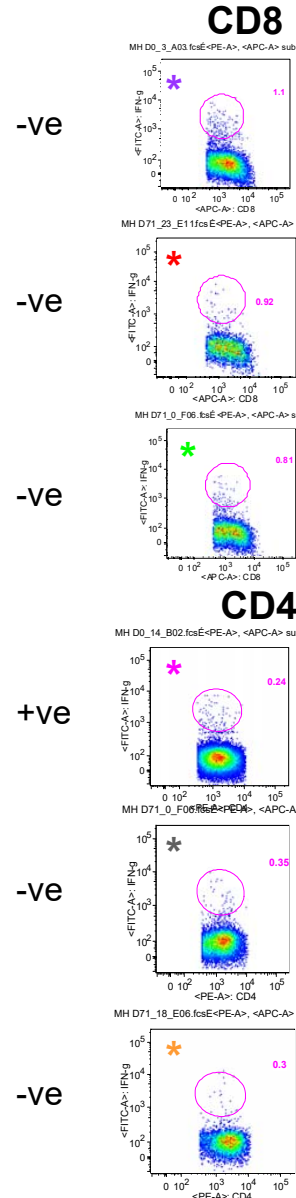


Summary

CD8 response: high background, non-specific responses

CD4 response: 3^p, 4^p, 13^p, 14^p, 15^p, 16^p, 20^p, 26^p, 27^p, 28^p. High background. Ab response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

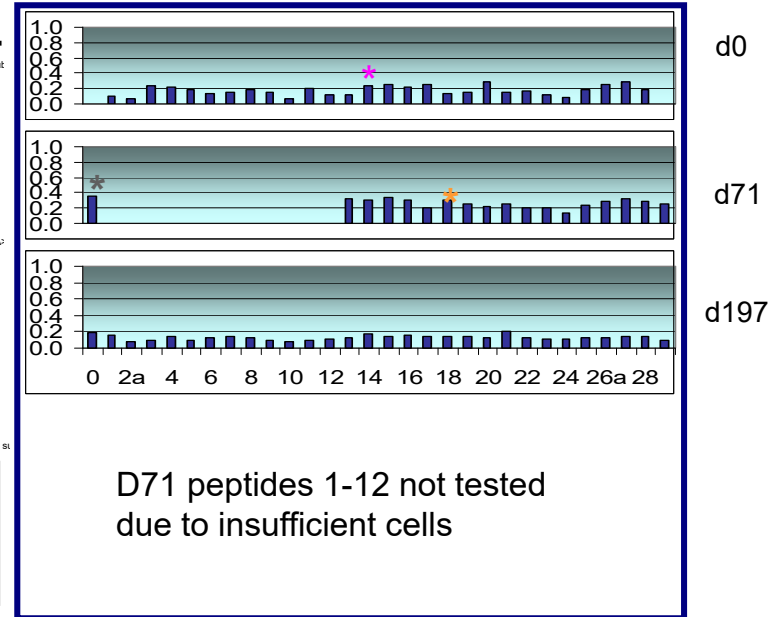
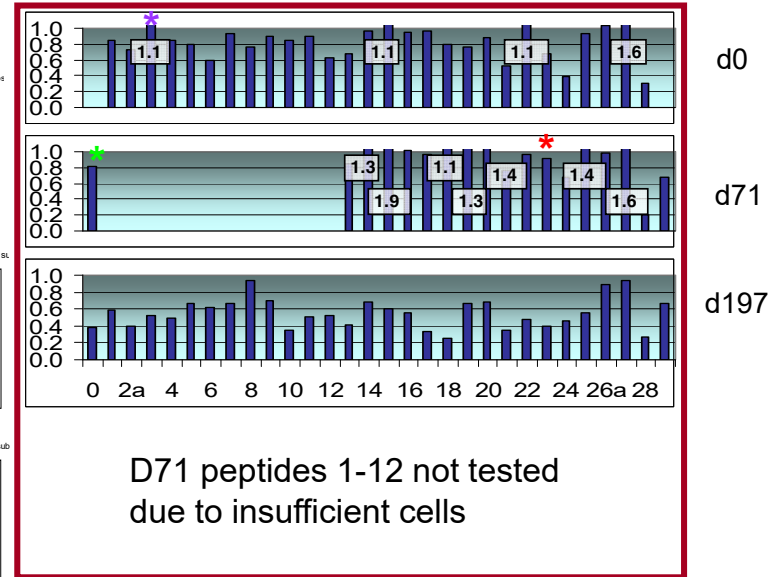
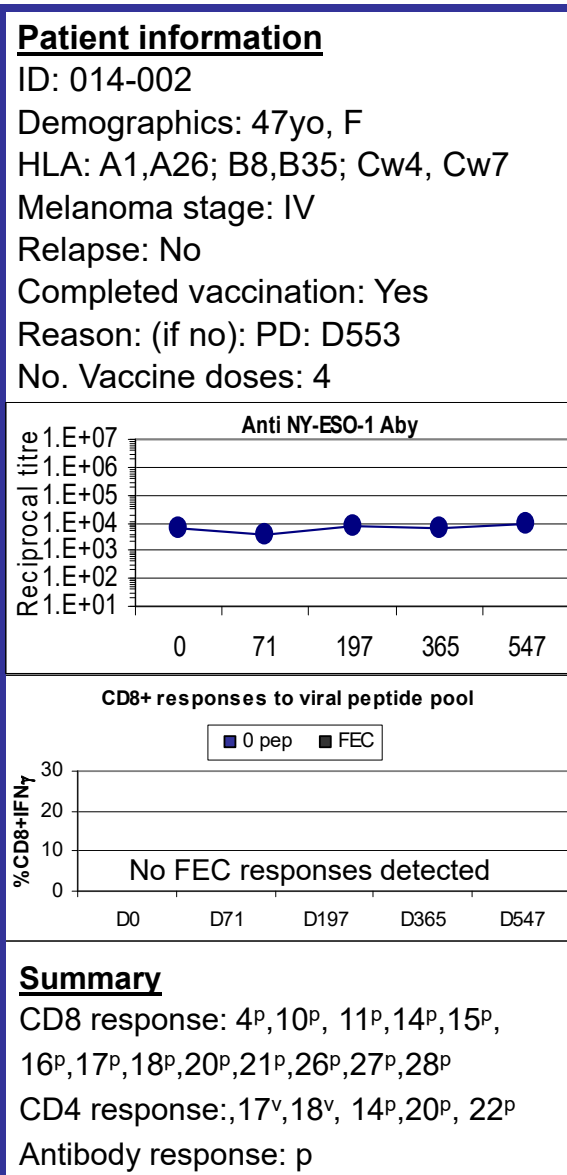
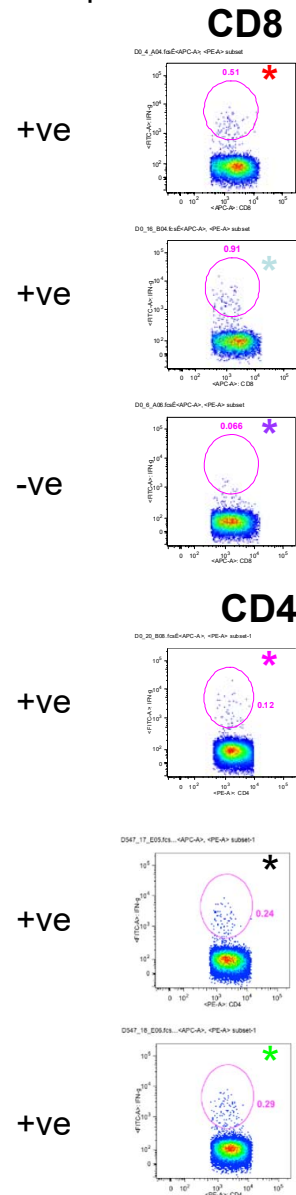


Figure S7.24



Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

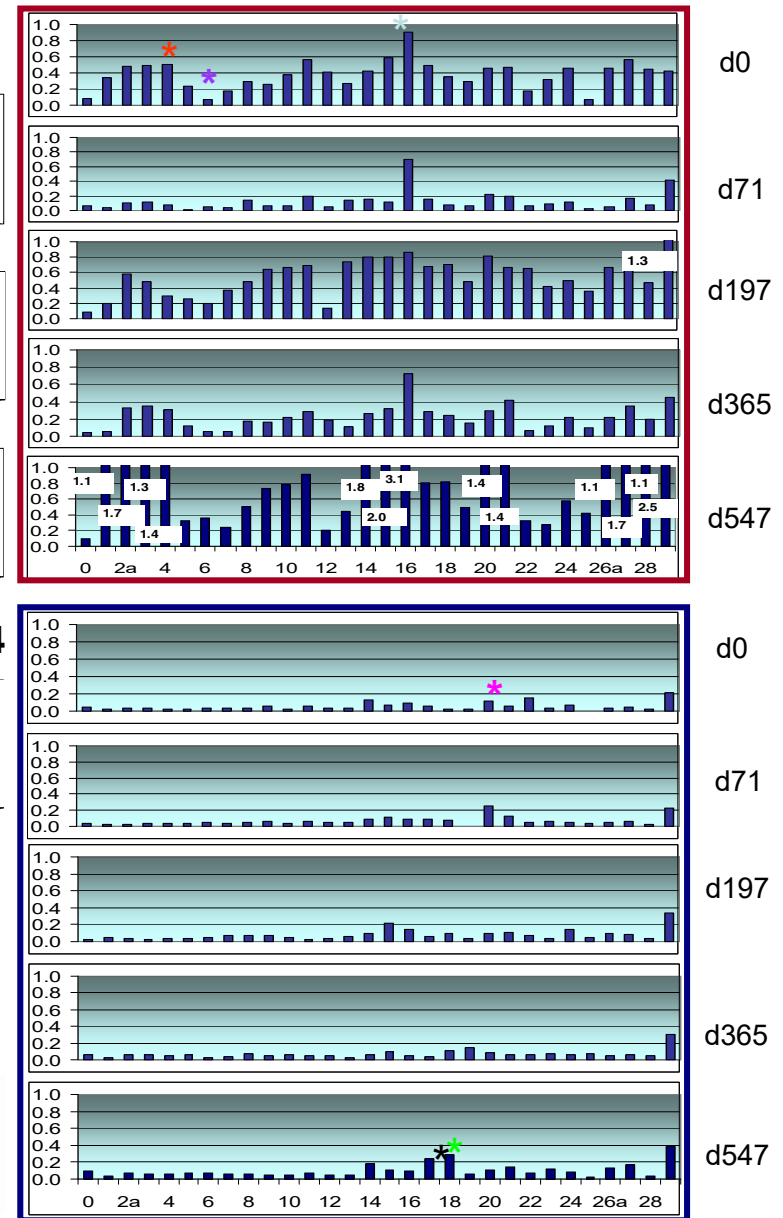


Figure S7.25

Patient information

ID: 014-006

Demographics: 55yo, F

HLA: A9201; B8, B60; Cw3, Cw7

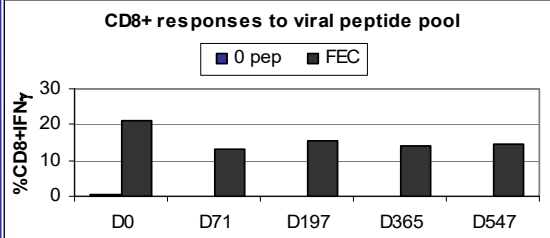
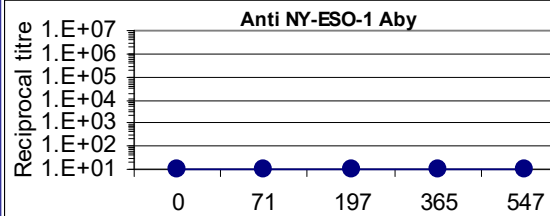
Melanoma stage: IV

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



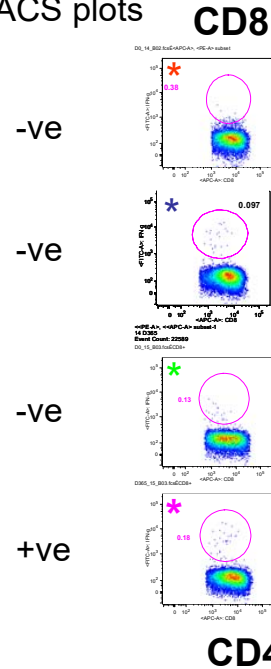
Summary

CD8 response: 15^v

CD4 response: nil

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

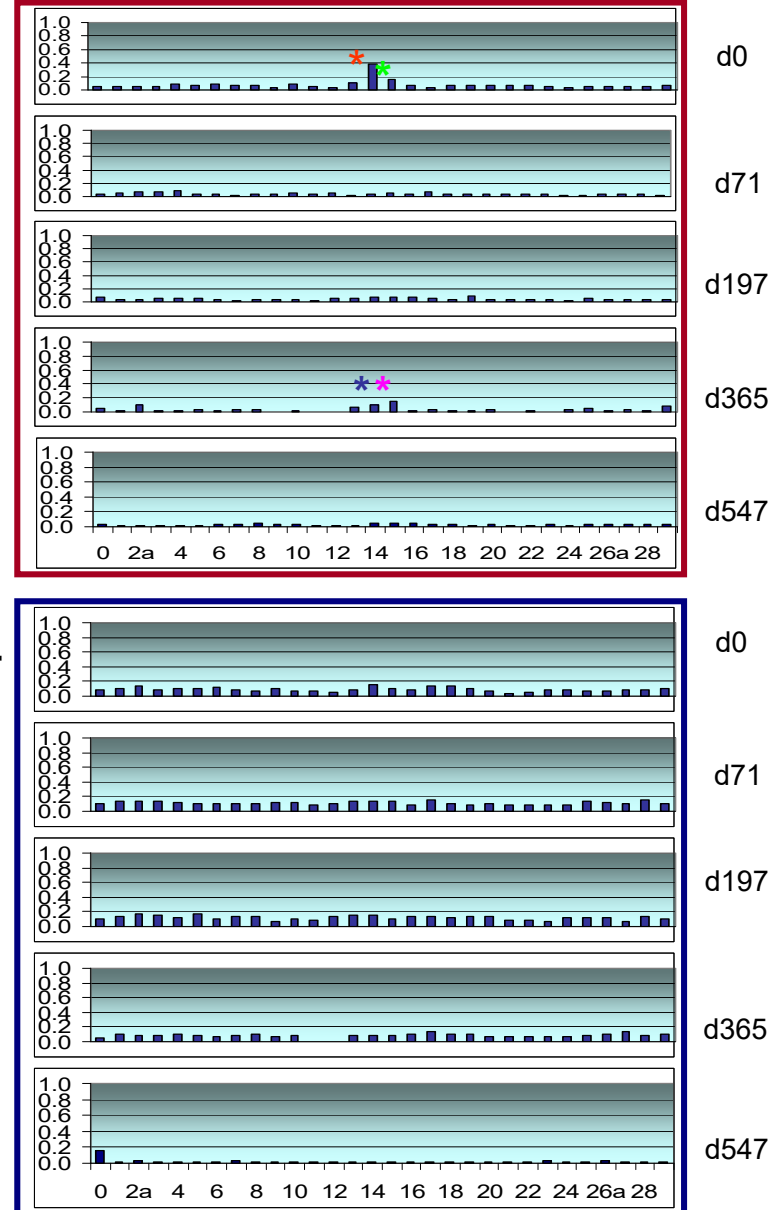


Figure S7.26

Patient information

ID: 014-008

Demographics: 64yo, F

HLA: A1,A3; B35, B57; Cw4,Cw6

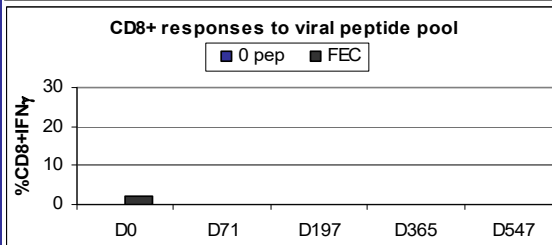
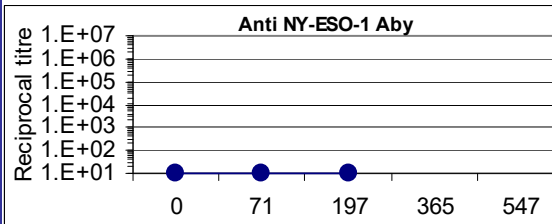
Melanoma stage: IV

Relapse: Yes

Completed vaccination: Yes

Reason: PD D207

No. Vaccine doses: 4



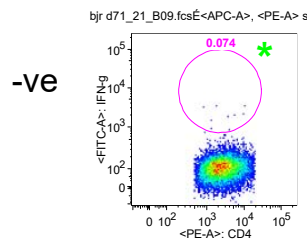
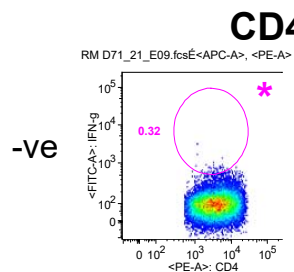
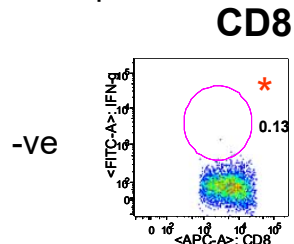
Summary

CD8 response: nil

CD4 response: nil

Antibody response: nil

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

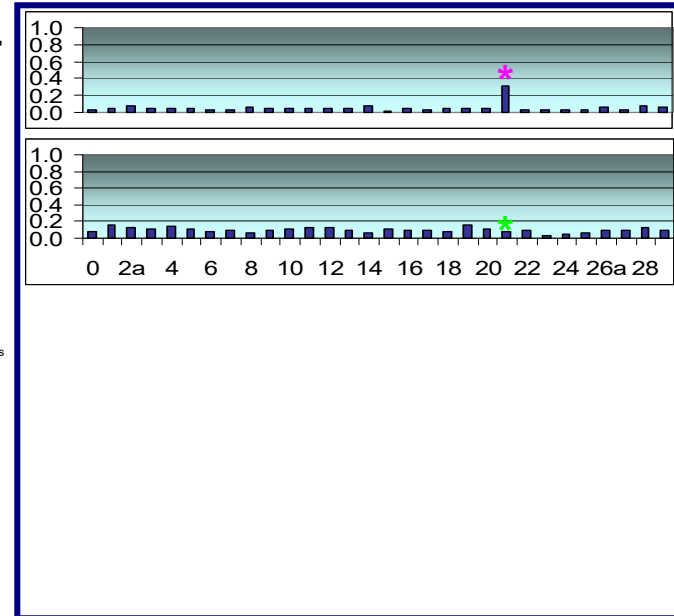
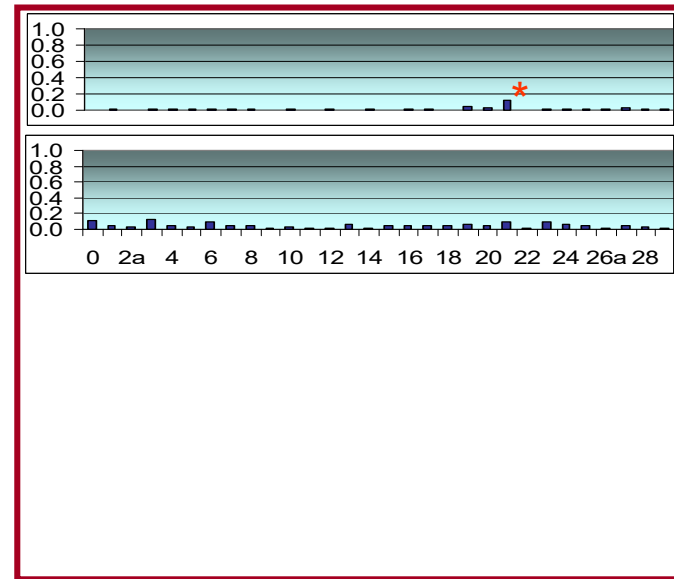


Figure S7.27

Patient information

ID: 014-011

Demographics: 40yo, F

HLA: A9201; B44, B8;

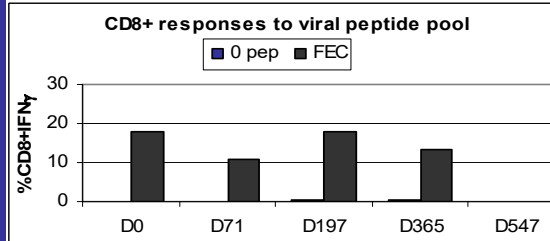
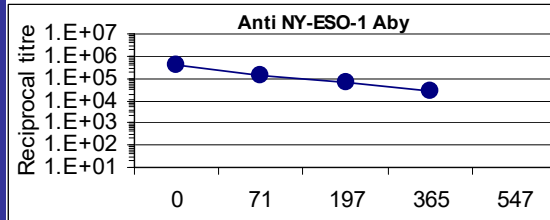
Melanoma stage: IV

Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4



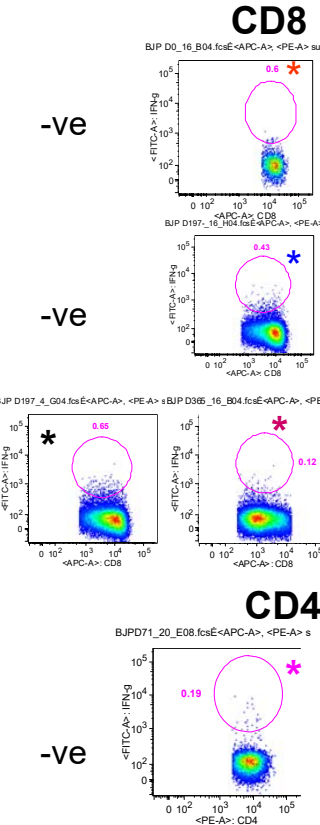
Summary

CD8 response: 21^v, 22^v, 23^v only +ve at D71; 27^p, 28^p;

CD4 response: nil

Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

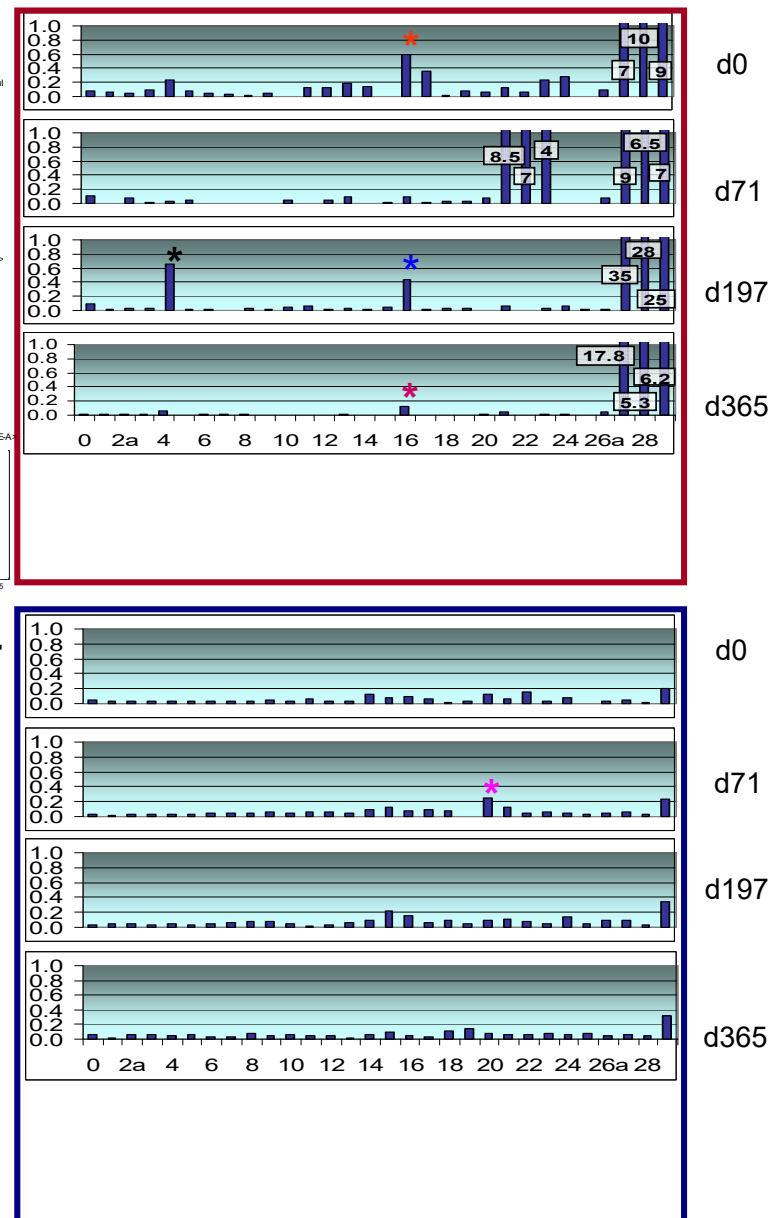
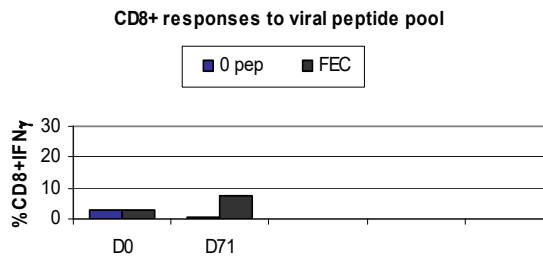
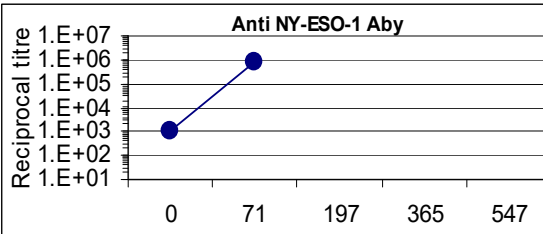


Figure S7.28

Patient information

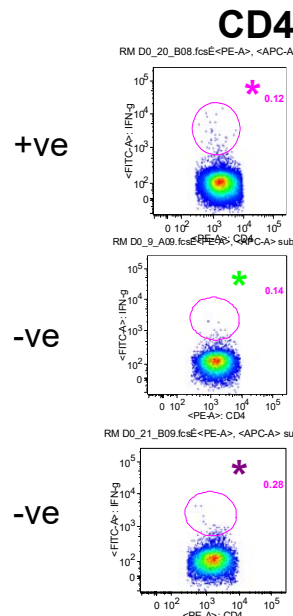
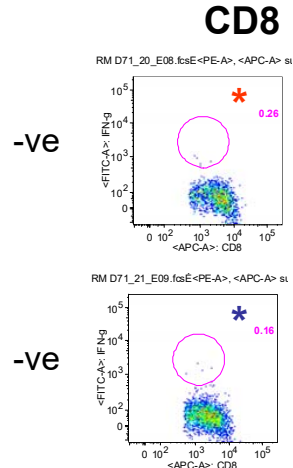
ID: 014-013
 Demographics: 74yo, M
 HLA:A24, A30; B7, B18; Cw5, Cw7
 Melanoma stage: IIIc
 Relapse: Yes
 Completed vaccination: No
 Reason: PD D99
 No. Vaccine doses: 3



Summary

CD8 response: 12^v, 19^v, 23^v, 24^v
 CD4 response: 21^v, 20^p
 Antibody response: v

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS

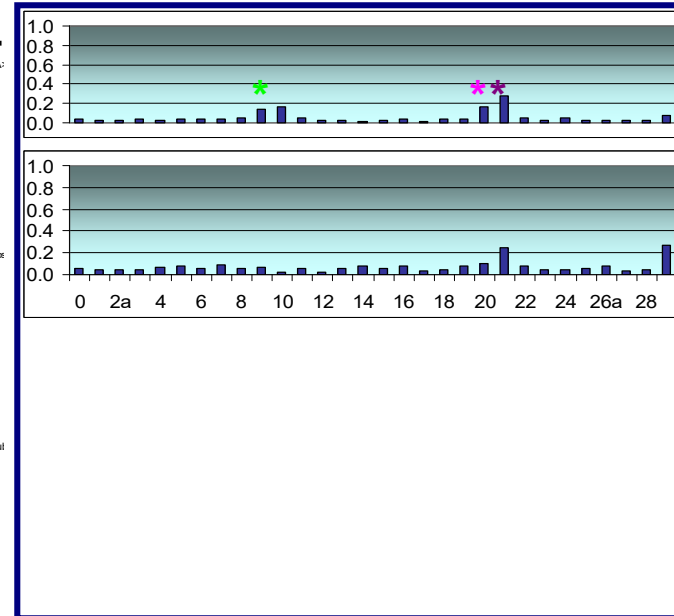
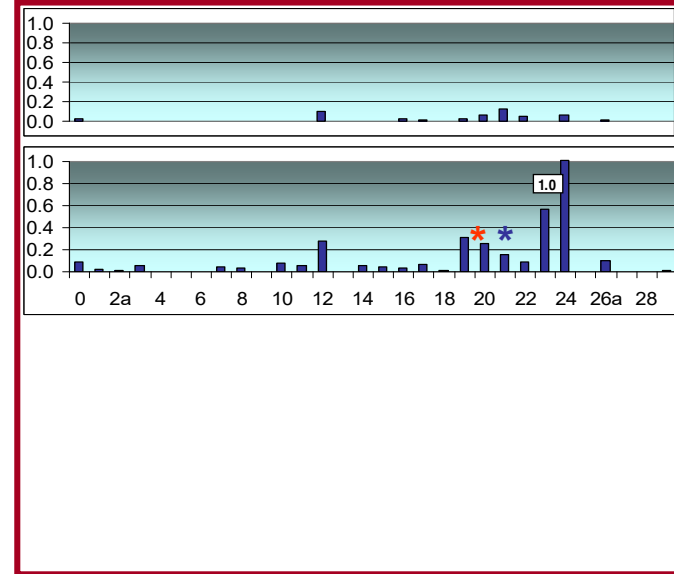
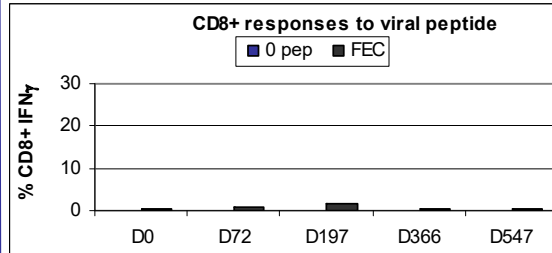
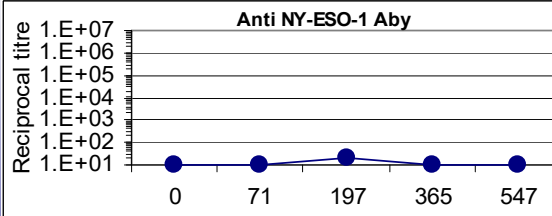


Figure S7.29

Patient information

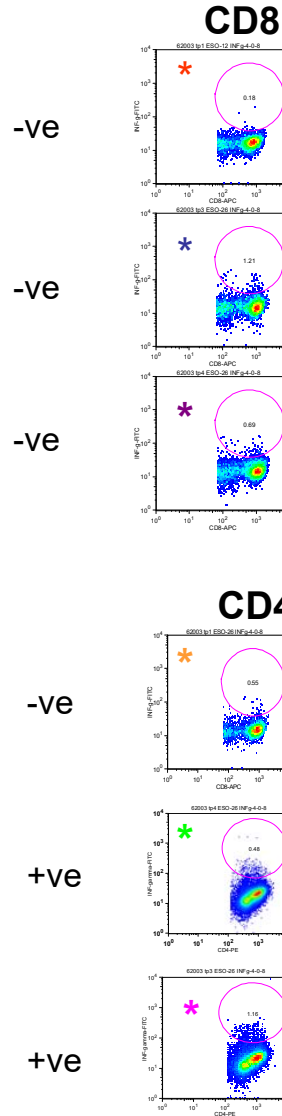
ID: 062-003
 Demographics: 45yo,F
 HLA: A1, A68; B40, B57;
 Melanoma stage: IIIb
 Relapse: No
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses: 4



Summary

CD8 response: nil
 CD4 response: 26^v
 Antibody response: nil

Examples of ICS FACS plots



Poor patterns

Overlapping NY-ESO-1 peptide ICS

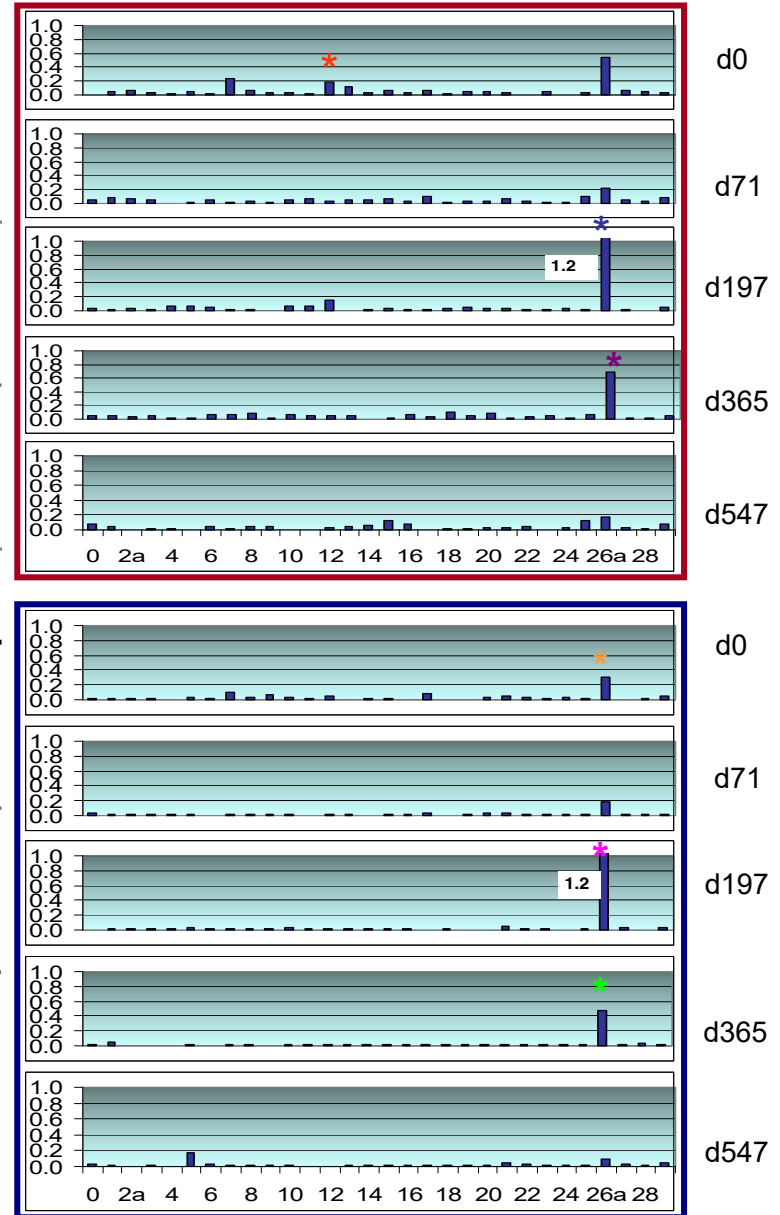


Figure S7.30

Examples of ICS
FACS plots

Overlapping NY-ESO-1 peptide ICS

Patient information

ID: 054-002

Demographics: 36 yo, F

HLA: A1, A2; B7, B50; Cw6, Cw7

Melanoma stage: IIIc

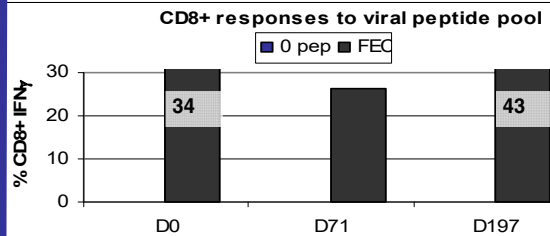
Relapse: No

Completed vaccination: Yes

Reason: (if no)

No. Vaccine doses: 4

No antibody titration



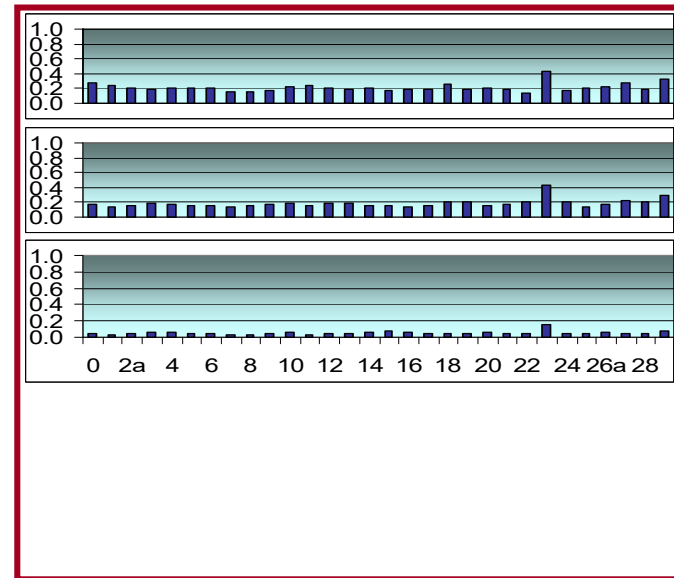
Summary

CD8 response: nil

CD4 response: nil

Antibody response: NT

CD8

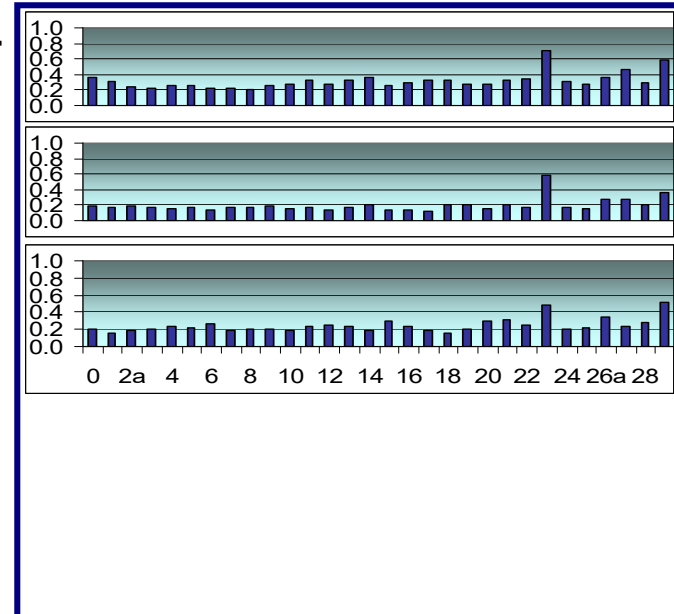


d0

d71

d197

CD4



d0

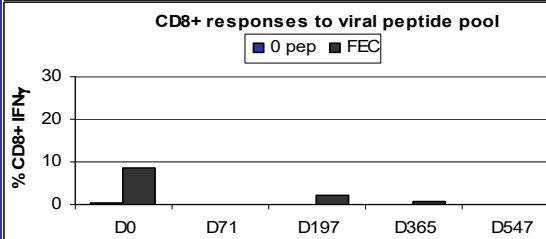
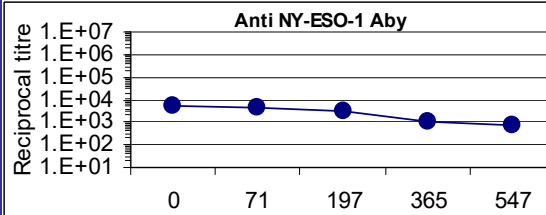
d71

d197

Figure S7.31

Patient information

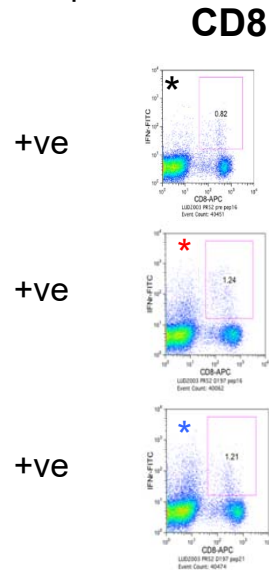
ID: 063-003
 Demographics: 55yo, F
 HLA: A2, A32; B27; Cw1, Cw3
 Melanoma stage: IIIc
 Relapse: No
 Completed vaccination: Yes
 Reason: (if no)
 No. Vaccine doses: 4



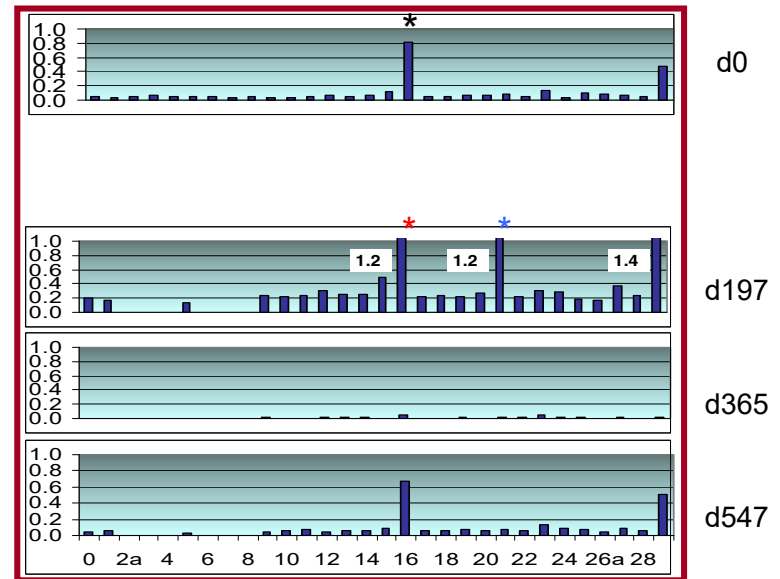
Summary

CD8 response: 21^v, 16^p
 CD4 response: nil. High background
 Antibody response: p

Examples of ICS FACS plots



Overlapping NY-ESO-1 peptide ICS



CD4

