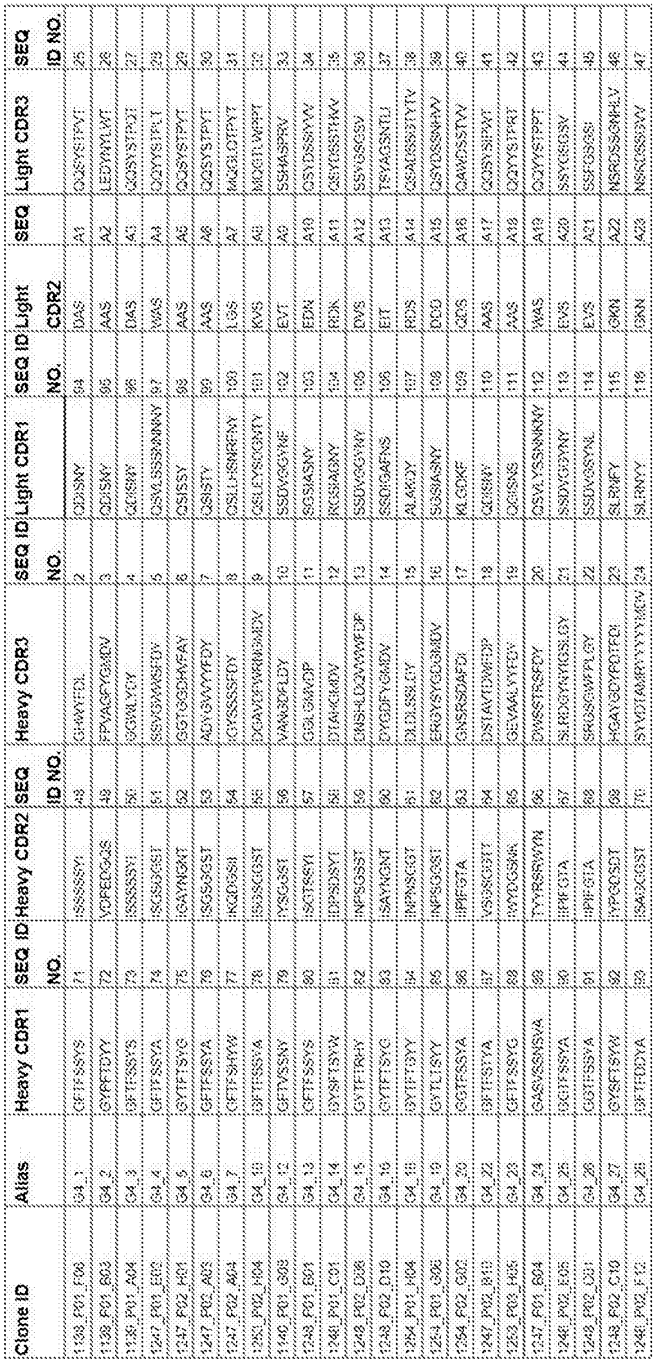


| Clone ID | Alias | Heavy CDR1 | SEQ ID NO. | Heavy CDR2 | SEQ ID NO. | Heavy CDR3 | SEQ ID NO. | Light CDR1 | SEQ ID NO. | Light CDR2 | SEQ ID NO. | Light CDR3 | SEQ ID NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1138_P01_F06 | G4_1 | GFTFSSYS | 71 | ISSSSSYI | 48 | GHWYFDL | 2 | QDISNY | 94 | DAS | A1 | QQSYSTPYT | 25 |
| 1138_P01_B03 | G4_2 | GYPFTDYV | 72 | VDPEDGST | 49 | FPVAGPYGMDV | 3 | QDISAY | 95 | AAS | A2 | LEDYNYLWT | 26 |
| 1138_P01_A04 | G4_3 | GFTFSSYS | 73 | ISSSSSYI | 50 | GGKWLYCY | 4 | QDISNP | 96 | DAS | A3 | QQSYSTPQT | 27 |
| 1247_P01_E02 | G4_4 | GFTFSSYA | 74 | ISGSGGST | 51 | SSVGWWSFDY | 5 | QSVLSSSDNNNKNY | 97 | WAS | A4 | QQYYSTPLT | 28 |
| 1247_P02_H01 | G4_5 | GYTFTSYG | 75 | ISAYNGNT | 52 | GGTGGDHYFAY | 6 | QSISSY | 98 | AAS | A5 | QQSYSTPYT | 29 |
| 1247_P02_A05 | G4_6 | GFTFSSYA | 76 | ISGSGGST | 53 | AGYGAVYFDY | 7 | QSISTY | 99 | AAS | A6 | QQSYSTPYT | 30 |
| 1247_P02_A04 | G4_7 | GFTFSHYW | 77 | IKQDGSEI | 54 | GYSSSSFDY | 8 | QSLLHSNGFNY | 100 | LGS | A7 | MQGLQTPYT | 31 |
| 1262_P02_H04 | G4_10 | GFTFSSYA | 78 | ISGSGGST | 55 | DGAVDFWSGYDEY | 9 | QSLEYSDGDTY | 101 | KVS | A8 | MQGTLWPPT | 32 |
| 1146_P01_G03 | G4_12 | GFTVSSNY | 79 | IYSGGST | 56 | VANGDFDLDY | 10 | SSDVGGYNF | 102 | EVT | A9 | SSHASPRV | 33 |
| 1248_P01_B01 | G4_13 | GFTFSSYS | 80 | ISGTGRYI | 57 | GSLGMRYDP | 11 | SSSNIASNY | 103 | EDN | A10 | QSTDSSNYVV | 34 |
| 1246_P01_C01 | G4_14 | GYSFTSYW | 81 | IDPSDSYT | 58 | DTAHGMDY | 12 | RSSNIGNY | 104 | RDN | A11 | QSYDSSTHVV | 35 |
| 1248_P02_D06 | G4_15 | GYTFTRHY | 82 | INPSGGST | 59 | DMSHLDDAWWFDF | 13 | SSDVGGYNY | 105 | DVS | A12 | SSYTSSGSV | 36 |
| 1248_P02_D10 | G4_16 | GYTFTSYG | 83 | ISAYNGNT | 60 | DYGDFYGMDV | 14 | SSDIGAAFNS | 106 | EIT | A13 | TSYAGSNTLI | 37 |
| 1264_P01_H04 | G4_18 | GYTFTDYY | 84 | INPNSGGT | 61 | DLDLSSLEY | 15 | ALAKQY | 107 | RDS | A14 | QSADSSGTYYV | 38 |
| 1264_P01_G06 | G4_19 | GYTLTSYY | 85 | INPSGGST | 62 | ERGYSYGDGMDV | 16 | SSSNIASNY | 108 | DDD | A15 | QSYDSSNHVV | 39 |
| 1264_P02_G02 | G4_20 | EGTFSSYA | 86 | IPIFGTA | 63 | GNSRSDAFDI | 17 | KLGDKF | 109 | QDS | A16 | QAWDSSTVV | 40 |
| 1247_P02_B10 | G4_22 | GFTFSTYA | 87 | ISGSGGST | 64 | DSTAVTDWFDP | 18 | QDISRY | 110 | AAS | A17 | QQSYSIPWT | 41 |
| 1263_P03_H05 | G4_23 | GFTFSSYG | 88 | ISYDGSNA | 65 | GEVAALYYFDY | 19 | QDISNS | 111 | AAS | A18 | QQYYSTPRT | 42 |
| 1247_P01_B04 | G4_24 | GASVSSNSYA | 89 | TYYRSRWYN | 66 | DVMSFTSFDY | 20 | QSVLYSSNNKNY | 112 | WAS | A19 | QQYYSTPPT | 43 |
| 1246_P02_E05 | G4_25 | EGTFSSYA | 90 | IIPIFGTA | 67 | SLRDGYYYGSLDY | 21 | SSDVGDYNY | 113 | EVS | A20 | SSYGSGSV | 44 |
| 1245_P02_C01 | G4_26 | EGTFSSYA | 91 | IPIFGTA | 68 | SRGSFGWFPLDY | 22 | SSDVGSYNL | 114 | EVS | A21 | SSFGSGSI | 45 |
| 1248_P02_C10 | G4_27 | GYSFTSYW | 92 | IYPGDSDT | 69 | HGAYGDYPDTFDI | 23 | SLRNFY | 115 | GKN | A22 | NSRDSSGNHLV | 46 |
| 1246_P02_F12 | G4_28 | GFTFDDYA | 93 | ISWNSGSI | 70 | SYYGTAMPYYYYMDV | 24 | SLRNYY | 116 | GKN | A23 | NSRDSSGYVV | 47 |

FIGURE 1

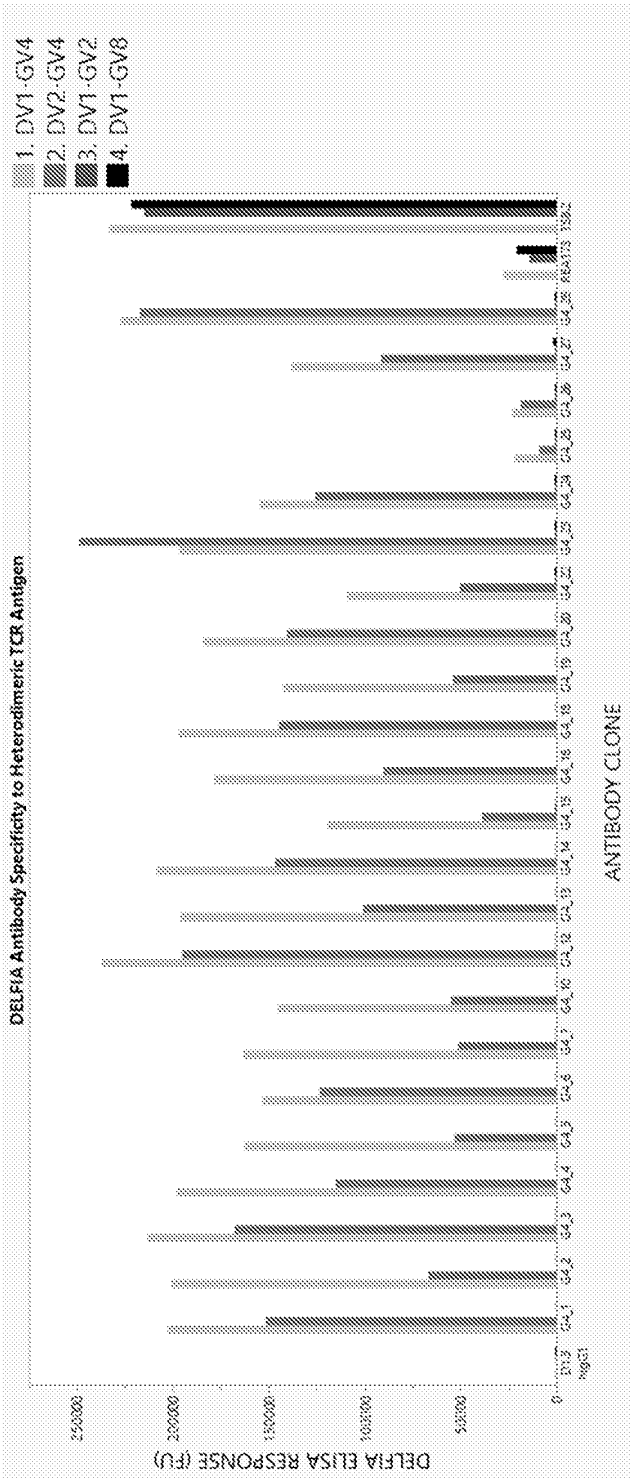

1. DV1-GV4
2. DV2-GV4
3. DV1-GV2
4. DV1-GV8
DELFIA Antibody Specificity to Heterodimeric TCR Antigen
DELFIA ELISA RESPONSE (FLU)
ANTIBODY CLONE

FIGURE 2A

| Alias | Clone ID | Antigen | | | | | DV1-GV4 specificity over DV1-GV2 (fold improvement after background D1.3 subtraction) | DV1-GV4 specificity over DV1-GV2 (% fold improvement after background subtraction) |
|---|---|---|---|---|---|---|---|---|
| | | BSA | L1 (DV1-GV4) | L2 (DV1-GV2) | L3 (DV1-GV8) | L4 (DV2-GV4) | | |
| G4_1 | 1138_P01_F06 | 76 | 212446 | 100 | 244 | 151594 | 5622 | 962267 |
| G4_2 | 1139_P01_B03 | 36 | 208371 | 86 | 270 | 68611 | 9114 | 911386 |
| G4_3 | 1139_P01_A04 | 88 | 213198 | 216 | 239 | 167636 | 1462 | 146202 |
| G4_4 | 1247_P01_E02 | 121 | 197877 | 90 | 190 | 115087 | 7627 | 760715 |
| G3_5 | 1247_P02_H01 | 86 | 162963 | 93 | 173 | 53057 | 5603 | 560348 |
| G4_6 | 1247_P02_A03 | 122 | 153210 | 112 | 256 | 123563 | 3198 | 318998 |
| G4_7 | 1247_P02_A04 | 164 | 163326 | 168 | 238 | 51157 | 1578 | 159957 |
| G4_10 | 1253_P02_H03 | 57 | 145188 | 109 | 187 | 54803 | 3224 | 322433 |
| G4_12 | 1139_P01_G08 | 80 | 236812 | 229 | 252 | 139128 | 1435 | 143467 |
| G4_13 | 1238_P01_B01 | 78 | 196224 | 94 | 270 | 105593 | 6551 | 655110 |
| G4_14 | 1238_P01_C01 | 135 | 286478 | 199 | 229 | 146794 | 1544 | 154358 |
| G4_15 | 1246_P02_D06 | 63 | 119133 | 384 | 156 | 38839 | 153 | 15282 |
| G4_16 | 1246_P02_D10 | 69 | 178442 | 84 | 118 | 89921 | 8918 | 891753 |
| G4_18 | 1254_P01_H04 | 67 | 198864 | 65 | 185 | 144733 | 98387 | 9838658 |
| G4_19 | 1254_P01_G06 | 55 | 142432 | 73 | 192 | 54077 | 15816 | 1581567 |
| G4_20 | 1254_P02_G02 | 102 | 184462 | 147 | 208 | 140291 | 2218 | 221778 |
| D1.3 (Assay 1) | Anti-Chick Lysozyme (D1.3) | 86 | 91 | 64 | 120 | 83 | NA | NA |
| | | | | | | | | |
| G4_22 | 1247_P02_B10 | 47 | 199257 | 567 | 380 | 50242 | 670 | 67017 |
| G4_23 | 1253_P03_H05 | 53 | 196478 | 618 | 1029 | 248899 | 928 | 92791 |
| G4_24 | 1247_P01_B04 | 53 | 154317 | 534 | 960 | 125859 | 1191 | 119093 |
| G4_25 | 1248_P01_E05 | 40 | 21670 | 486 | 885 | 8811 | 259 | 25901 |
| G4_26 | 1248_P02_C01 | 51 | 22796 | 680 | 870 | 13324 | 80 | 8029 |
| G4_27 | 1248_P02_C10 | 40 | 198340 | 575 | 1636 | 91330 | 791 | 79033 |
| G4_28 | 1248_P02_E12 | 65 | 227897 | 576 | 994 | 217278 | 1324 | 132402 |
| D1.3 (Assay 2) | Anti-Chick Lysozyme (D1.3) | 51 | 680 | 405 | 717 | 43 | NA | NA |

FIGURE 2B

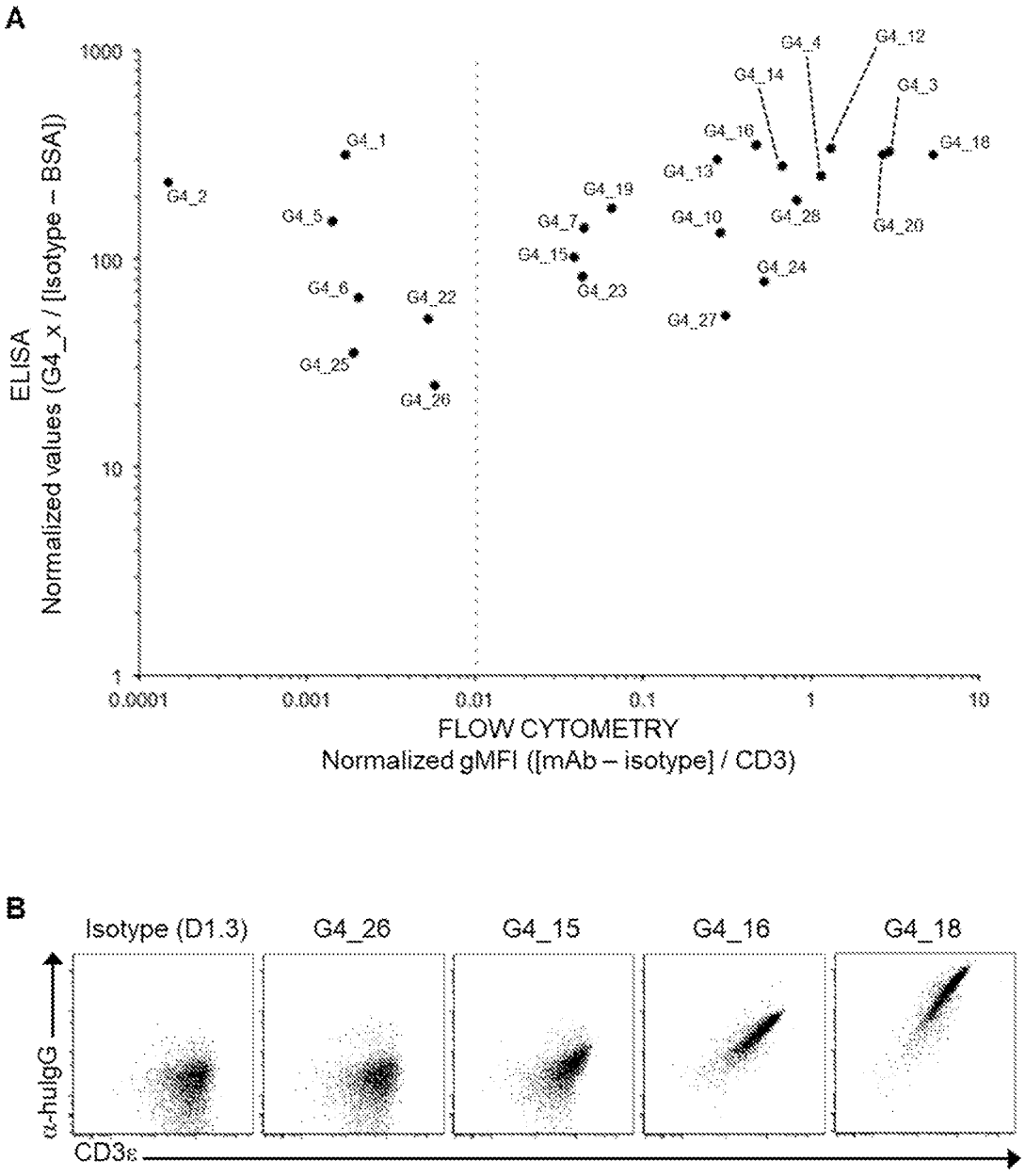

A
ELISA
Normalized values (G4_x / [Isotype – BSA])
1000
100
10
1
G4_1
G4_2
G4_5
G4_6
G4_22
G4_25
G4_26
G4_4
G4_12
G4_14
G4_3
G4_16
G4_18
G4_13
G4_19
G4_7
G4_10
G4_28
G4_20
G4_15
G4_24
G4_23
G4_27
0.0001
0.001
0.01
0.1
1
10
FLOW CYTOMETRY
Normalized gMFI ([mAb – isotype] / CD3)
B
Isotype (D1.3)
G4_26
G4_15
G4_16
G4_18
α-huIgG
CD3ε

**FIGURE 3**

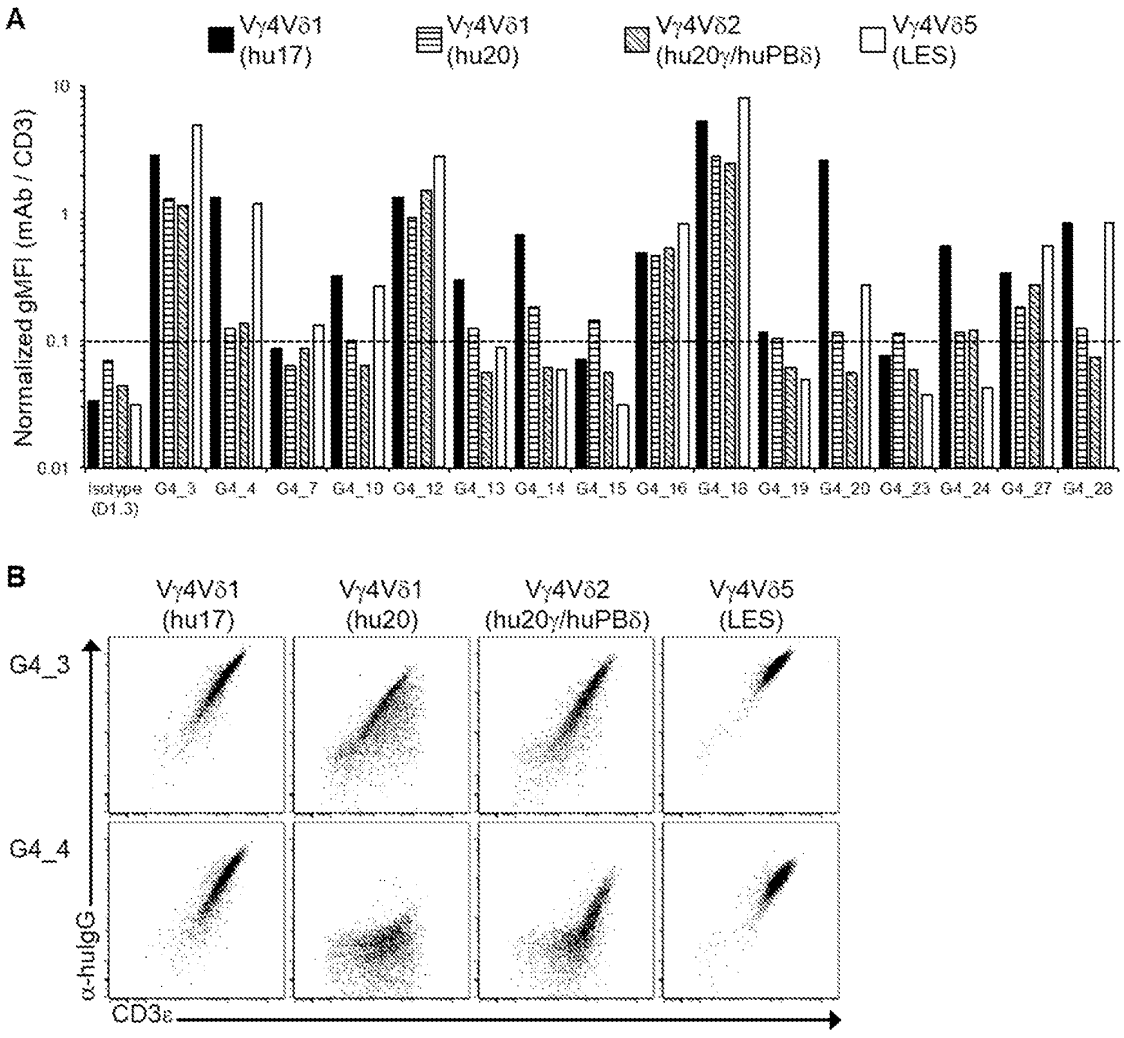

A
Vγ4Vδ1 (hu17)
Vγ4Vδ1 (hu20)
Vγ4Vδ2 (hu20γ/huPBδ)
Vγ4Vδ5 (LES)
Normalized gMFI (mAb / CD3)
10
1
0.1
0.01
Isotype (D1.3)
G4_3
G4_4
G4_7
G4_10
G4_12
G4_13
G4_14
G4_15
G4_16
G4_18
G4_19
G4_20
G4_23
G4_24
G4_27
G4_28
B
Vγ4Vδ1 (hu17)
Vγ4Vδ1 (hu20)
Vγ4Vδ2 (hu20γ/huPBδ)
Vγ4Vδ5 (LES)
G4_3
G4_4
α-huIgG
CD3ε

**FIGURE 4**

A

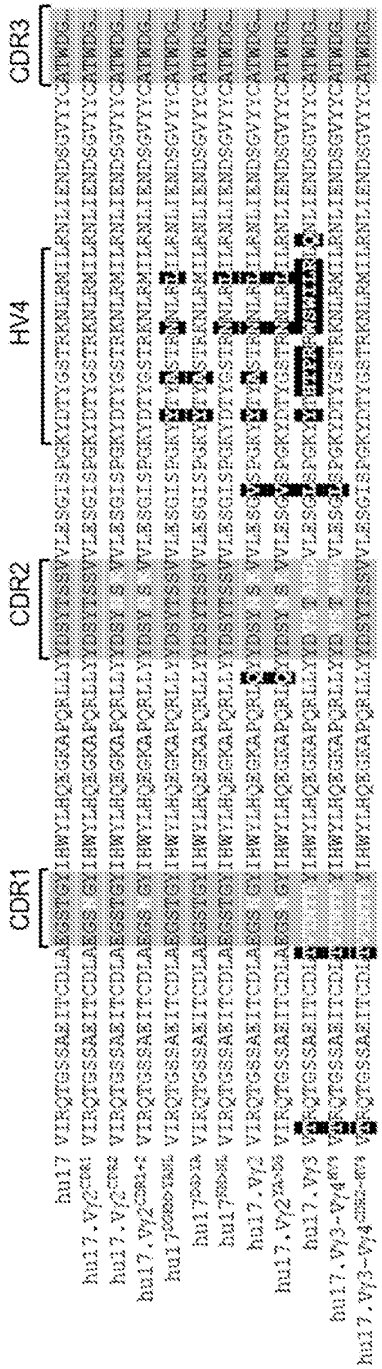



FIGURE 5

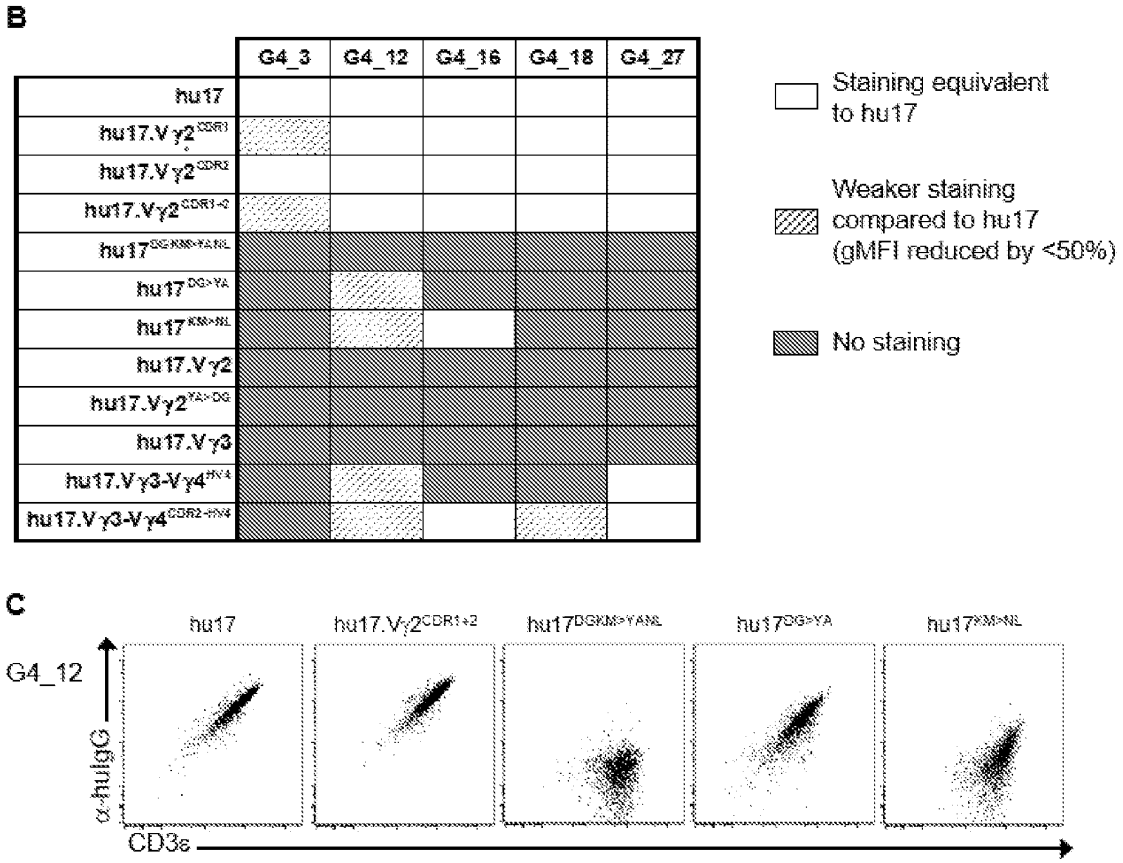



**FIGURE 5 (contd.)**

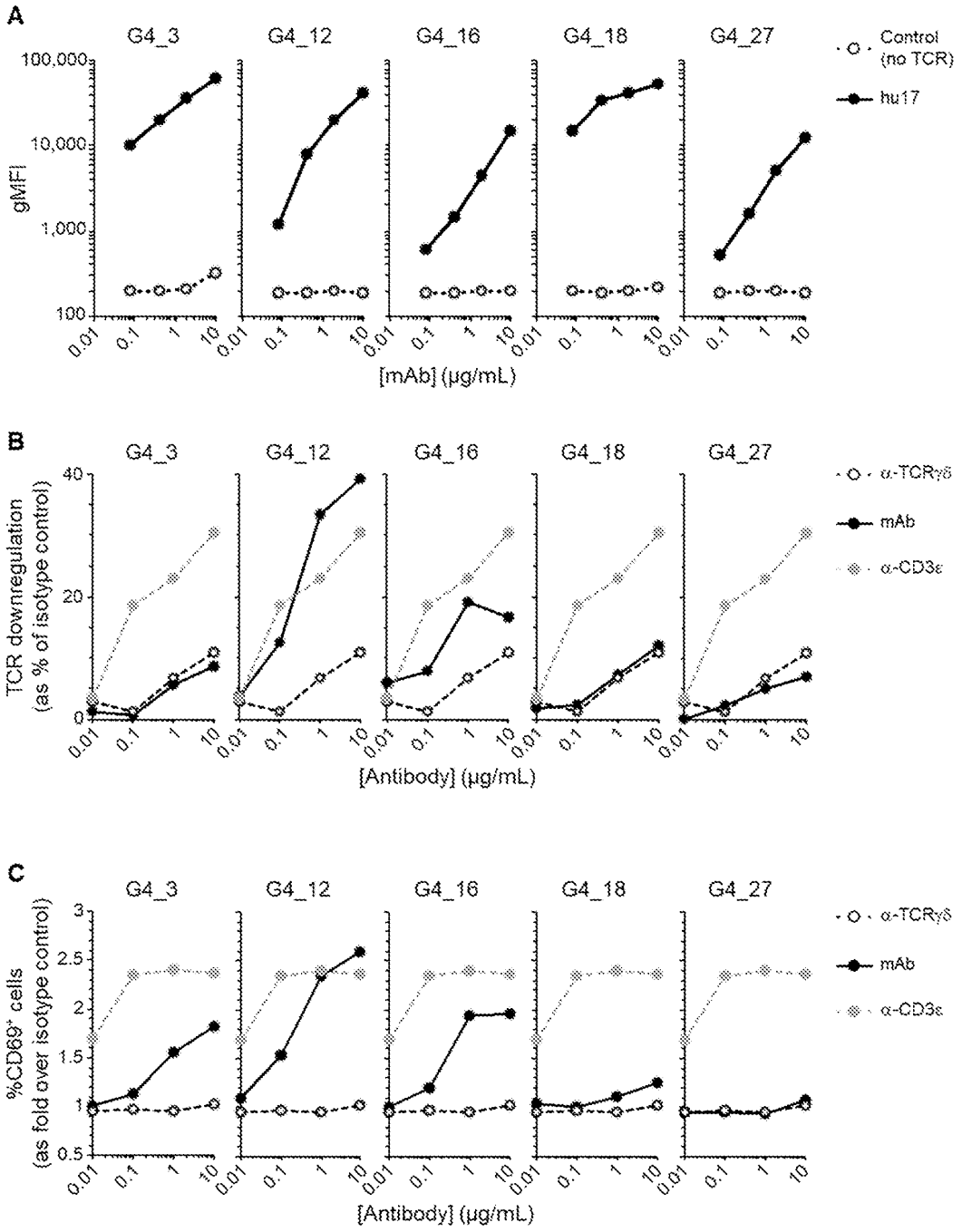

A
G4_3
G4_12
G4_16
G4_18
G4_27
gMFI
100,000
10,000
1,000
100
0.01
0.1
1
10
[mAb] (µg/mL)
Control (no TCR)
hu17
B
TCR downregulation (as % of isotype control)
40
20
0
[Antibody] (µg/mL)
α-TCRγδ
mAb
α-CD3ε
C
%CD69+ cells (as fold over isotype control)
3
2.5
2
1.5
1
0.5
[Antibody] (µg/mL)
α-TCRγδ
mAb
α-CD3ε

**FIGURE 6**

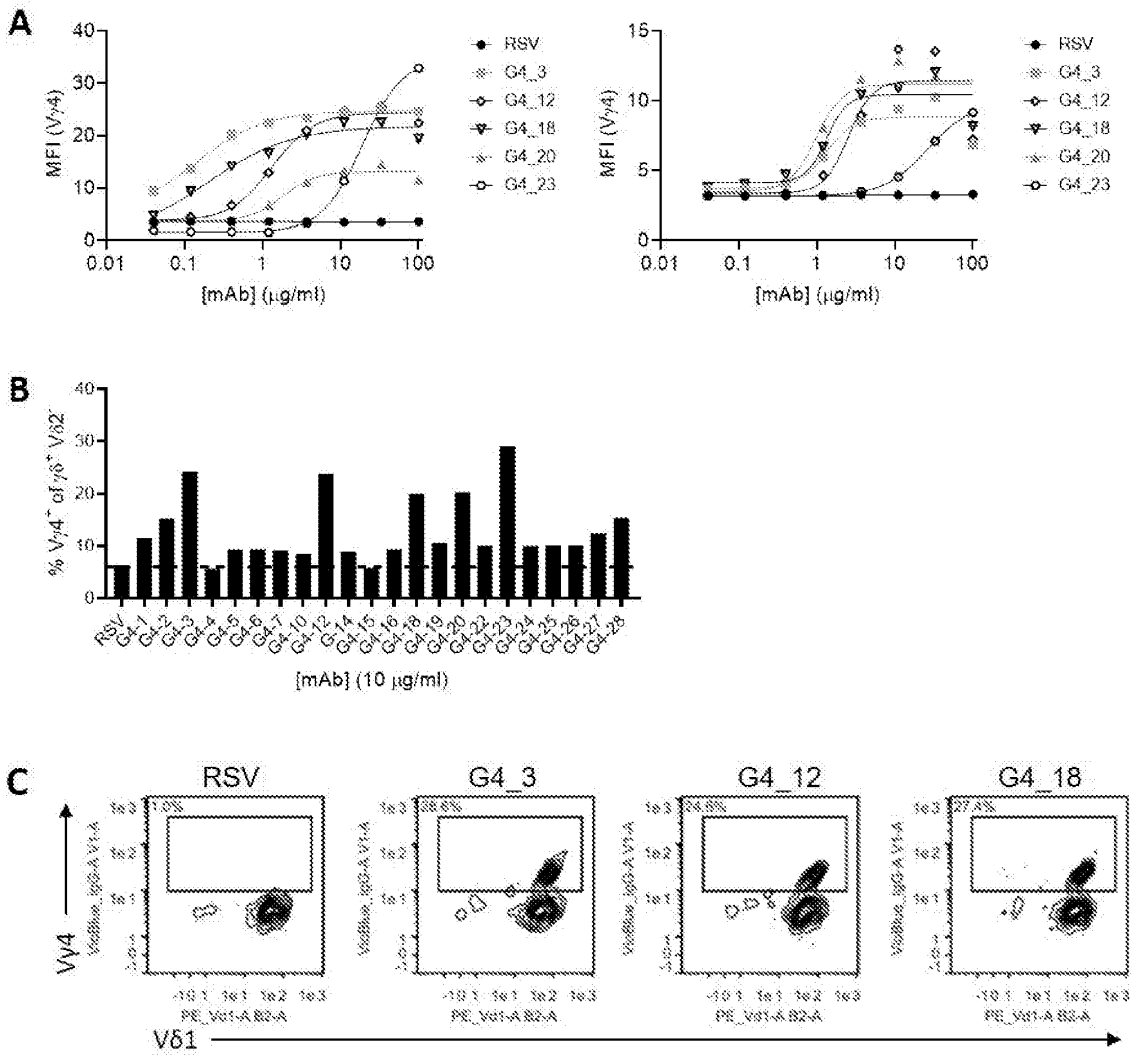

A
MFI (Vγ4)
[mAb] (μg/ml)
RSV
G4_3
G4_12
G4_18
G4_20
G4_23
B
% Vγ4+ of γδ+ Vδ2-
[mAb] (10 μg/ml)
C
RSV
G4_3
G4_12
G4_18
Vγ4
Vδ1

**FIGURE 7**

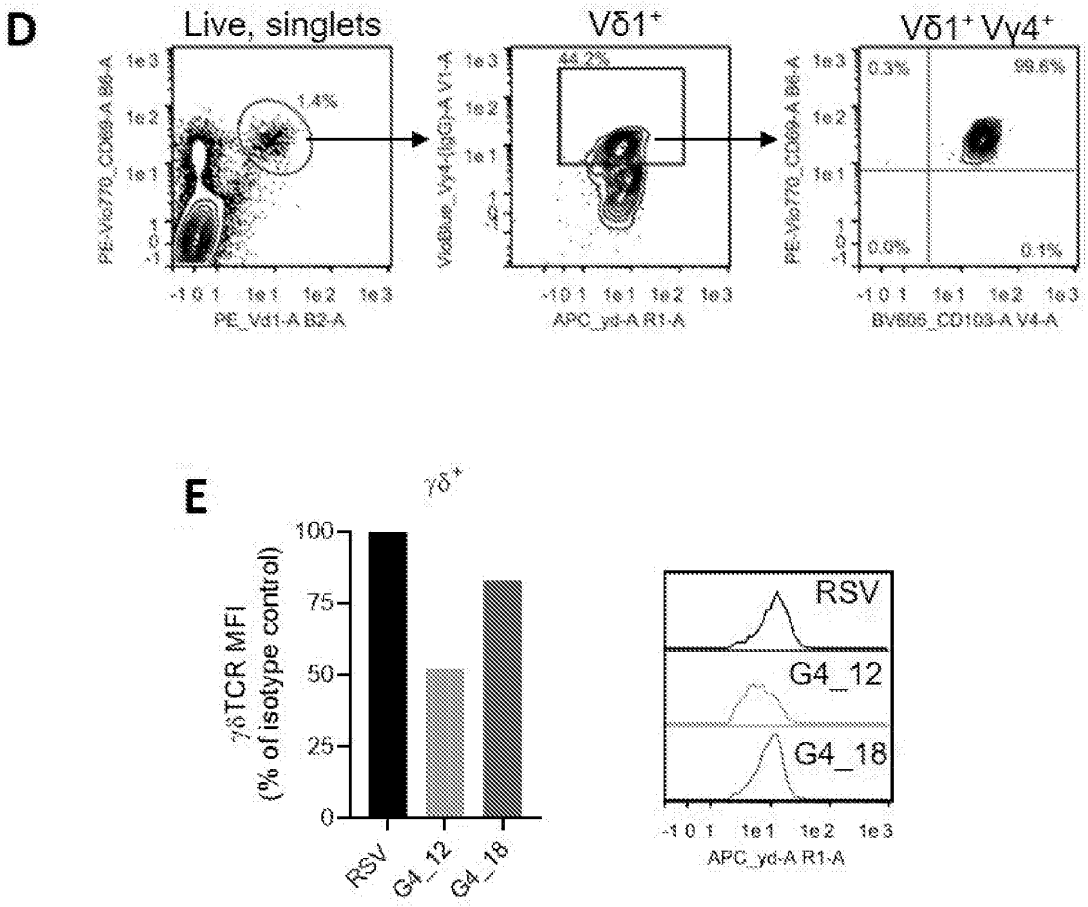



**FIGURE 7 (contd.)**

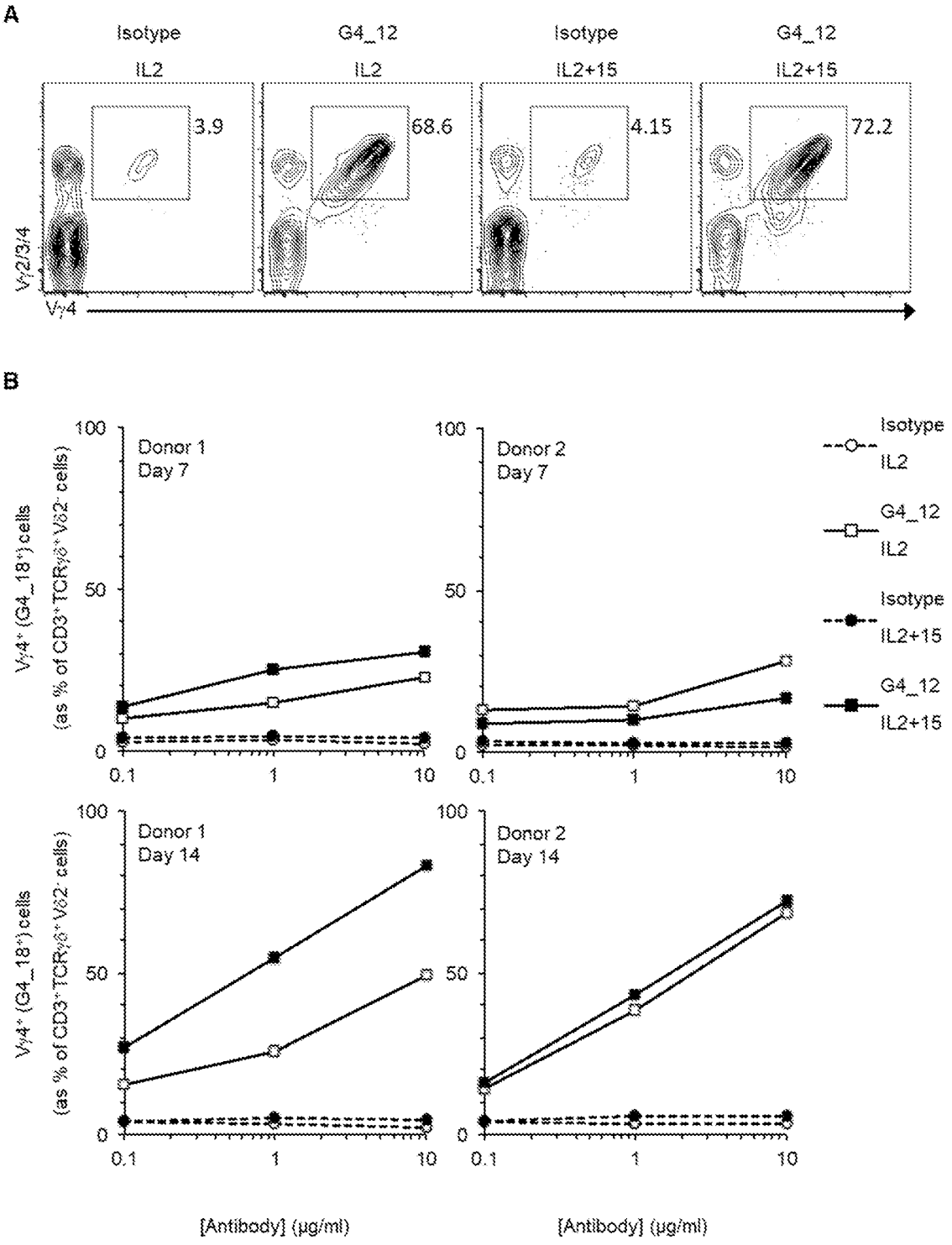

A
Isotype
IL2
G4_12
IL2
Isotype
IL2+15
G4_12
IL2+15
3.9
68.6
4.15
72.2
Vγ2/3/4
Vγ4
B
Donor 1
Day 7
Donor 2
Day 7
Donor 1
Day 14
Donor 2
Day 14
Vγ4+ (G4_18+) cells
(as % of CD3+TCRγδ+Vδ2- cells)
100
50
0
0.1
1
10
Isotype
IL2
G4_12
IL2
Isotype
IL2+15
G4_12
IL2+15
[Antibody] (µg/ml)
[Antibody] (µg/ml)

**FIGURE 8**