Fig. 1

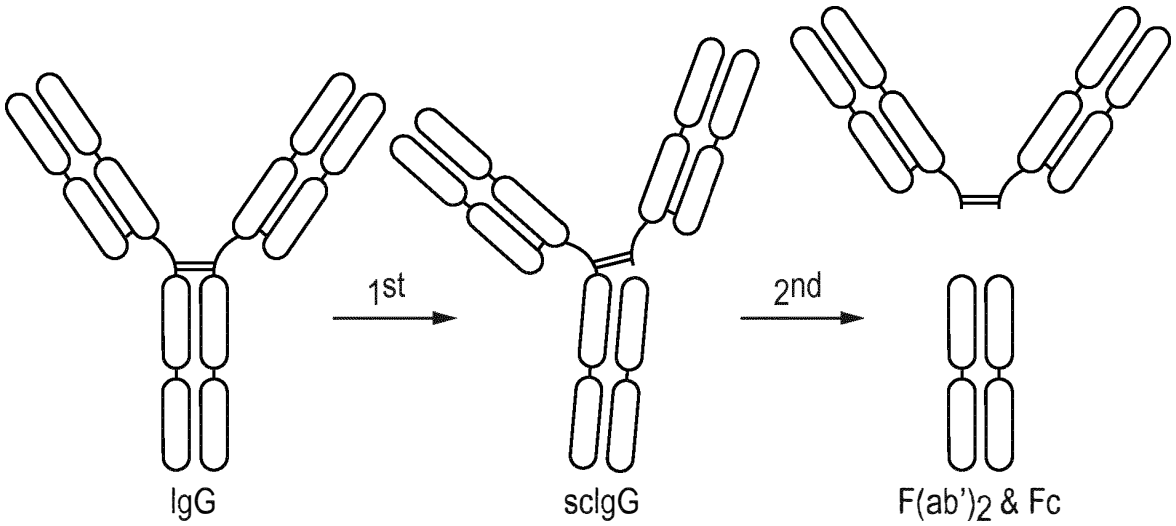


Fig. 2A

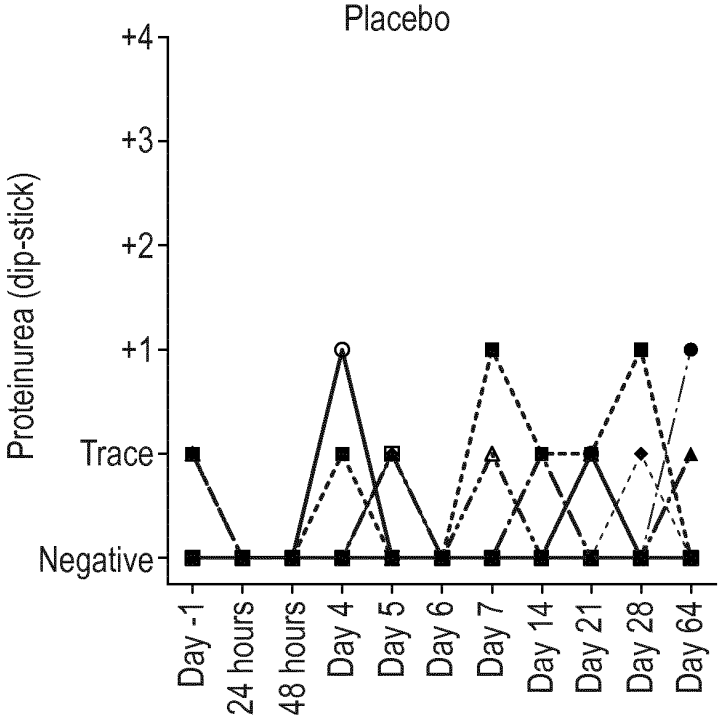

Placebo
Proteinurea (dip-stick)
+4
+3
+2
+1
Trace
Negative
Day -1
24 hours
48 hours
Day 4
Day 5
Day 6
Day 7
Day 14
Day 21
Day 28
Day 64

Fig. 2B

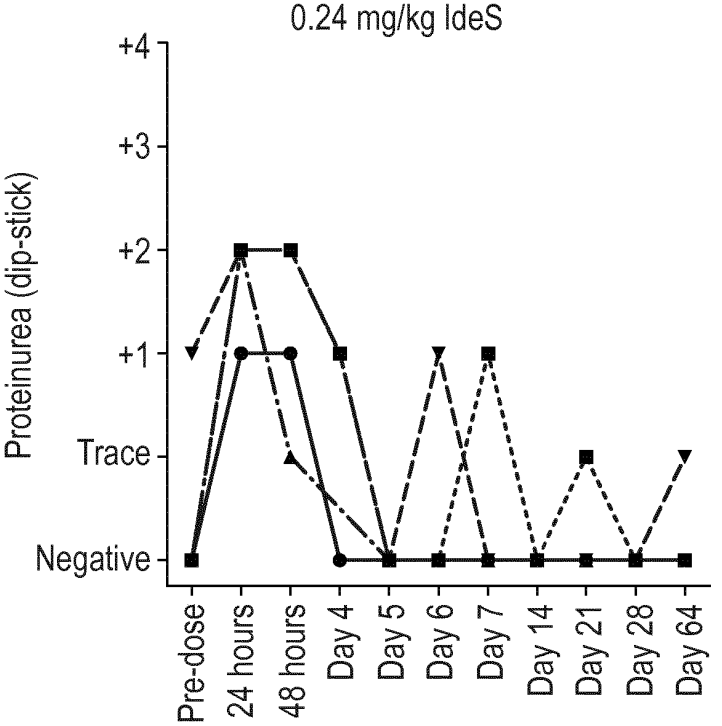

0.24 mg/kg IdeS
Proteinurea (dip-stick)
+4
+3
+2
+1
Trace
Negative
Pre-dose
24 hours
48 hours
Day 4
Day 5
Day 6
Day 7
Day 14
Day 21
Day 28
Day 64

Fig. 3A

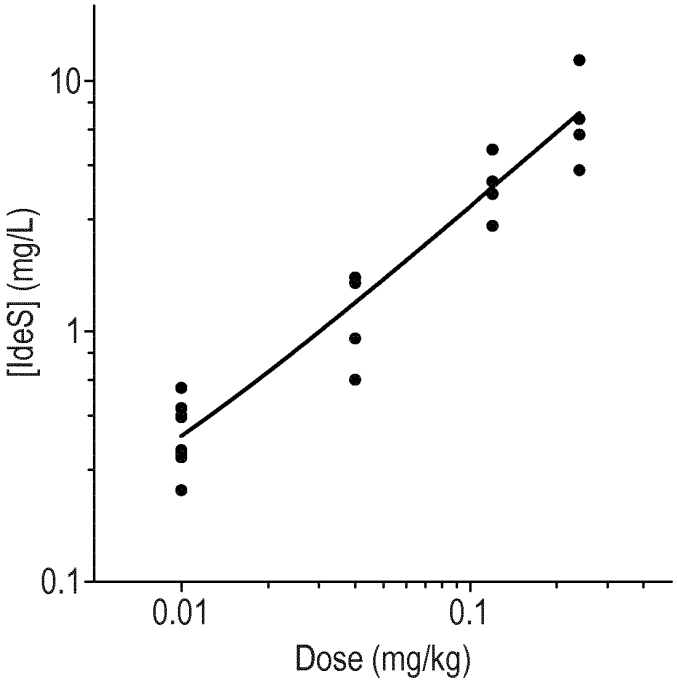

10
1
0.1
[IdeS] (mg/L)
0.01
0.1
Dose (mg/kg)

Fig. 3B

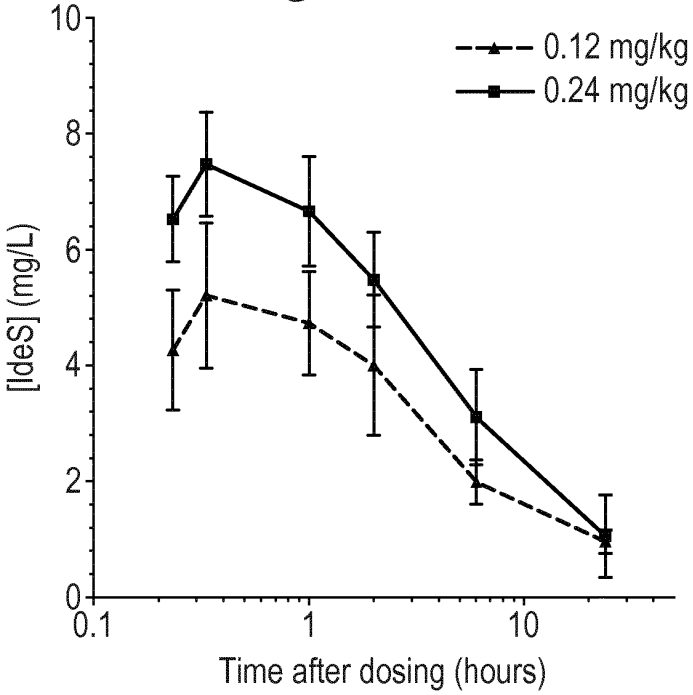

0.12 mg/kg
0.24 mg/kg
10
8
6
4
2
0
[IdeS] (mg/L)
0.1
1
10
Time after dosing (hours)

Fig. 4A

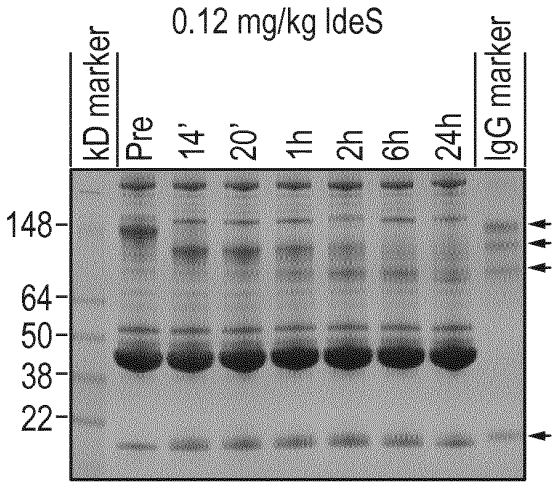


Fig. 4B

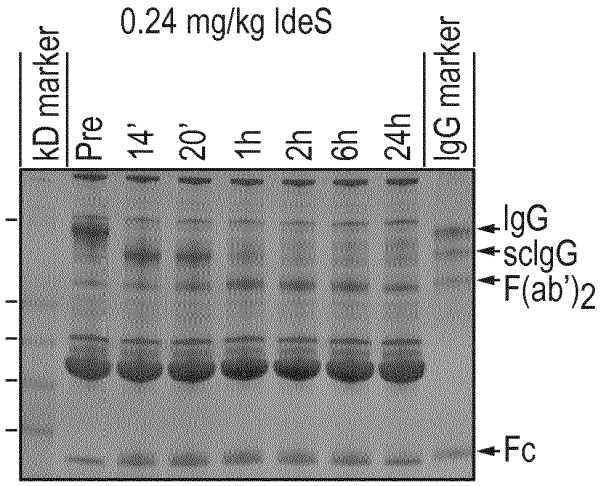


Fig. 4C

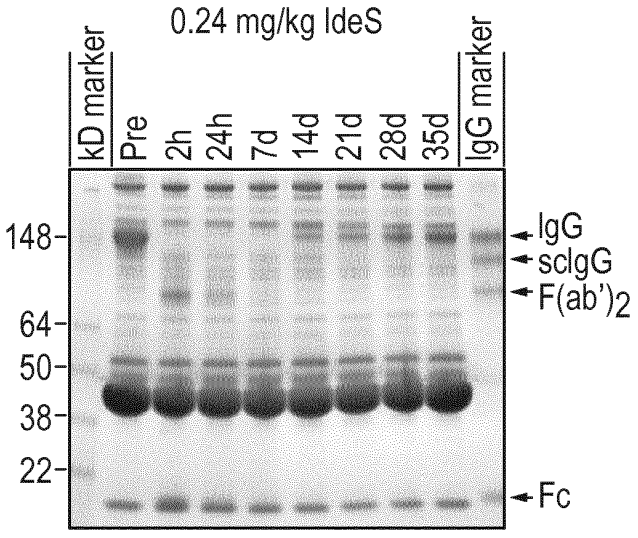


Fig. 5

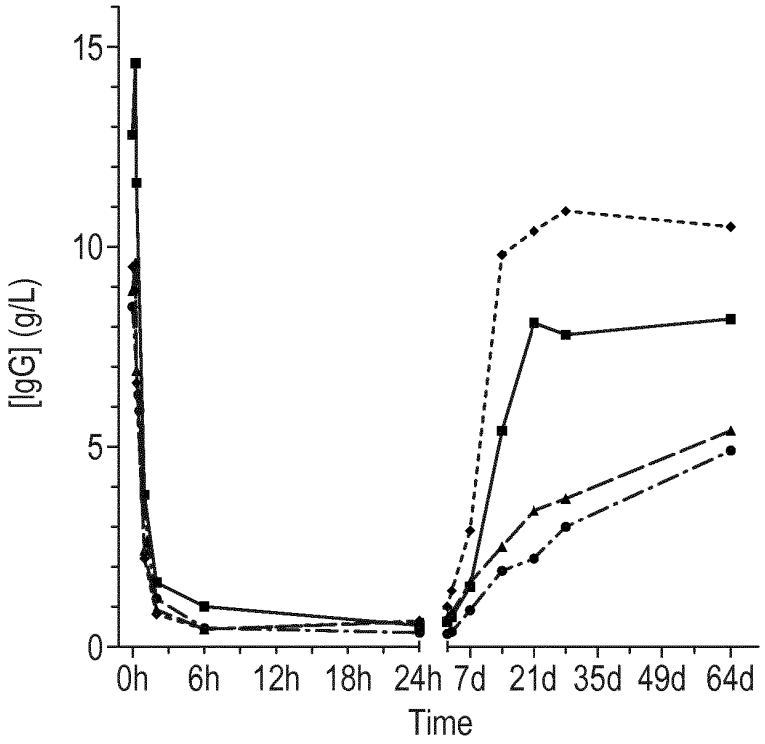

15
10
5
0
[IgG] (g/L)
0h
6h
12h
18h
24h
7d
21d
35d
49d
64d
Time

Fig. 6

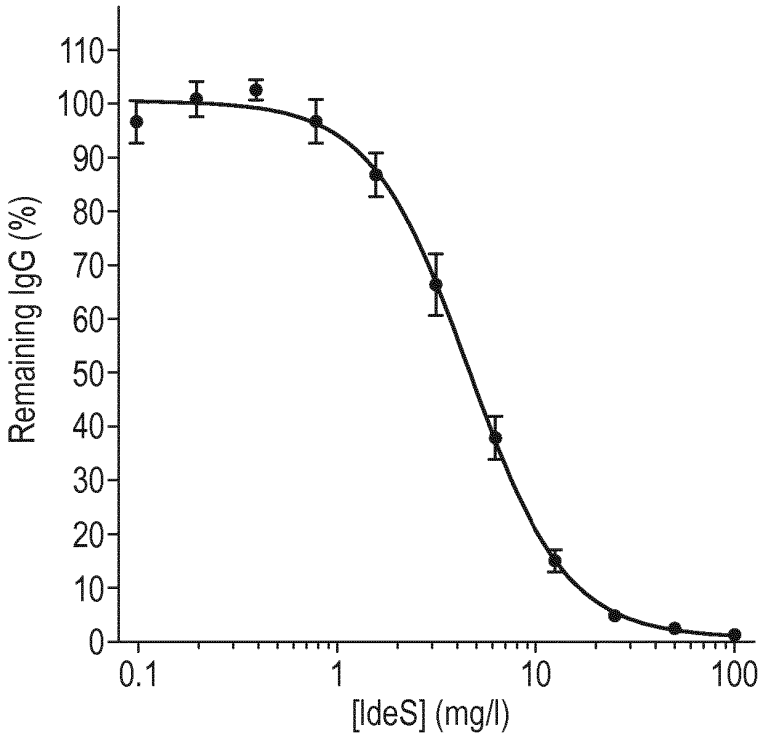

110
100
90
80
70
60
50
40
30
20
10
0
Remaining IgG (%)
0.1
1
10
100
[IdeS] (mg/l)

Fig. 7

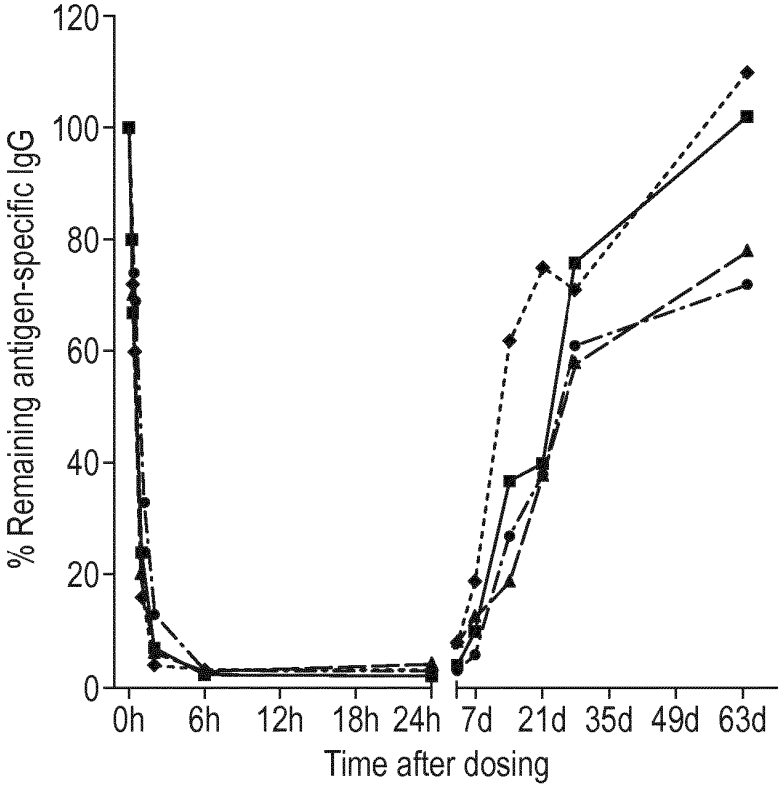

120
100
80
60
40
20
0
% Remaining antigen-specific IgG
0h
6h
12h
18h
24h
7d
21d
35d
49d
63d
Time after dosing

Fig. 8A

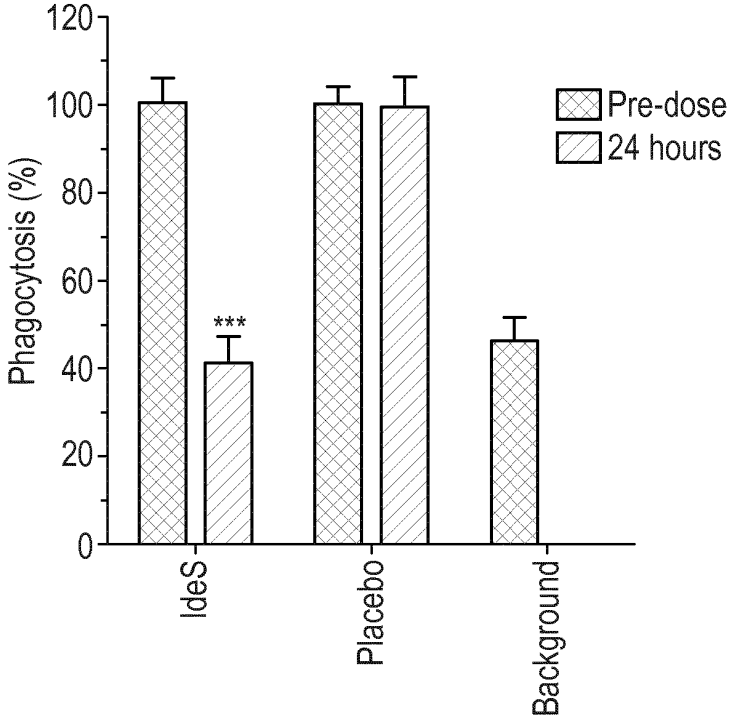

120
100
80
60
40
20
0
Phagocytosis (%)
***
Pre-dose
24 hours
IdeS
Placebo
Background

Fig. 8B

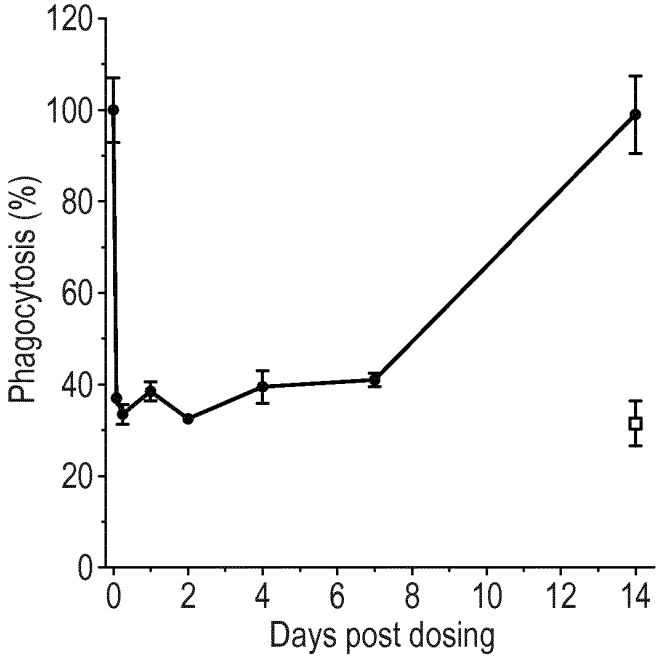

120
100
80
60
40
20
0
Phagocytosis (%)
0
2
4
6
8
10
12
14
Days post dosing

Fig. 9A

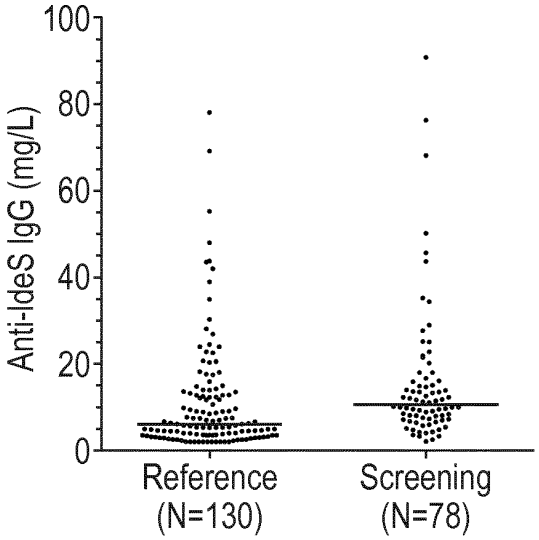


Fig. 9B

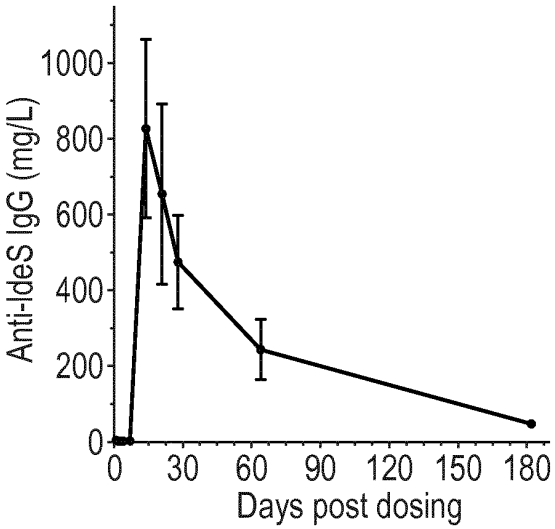


Fig. 9C

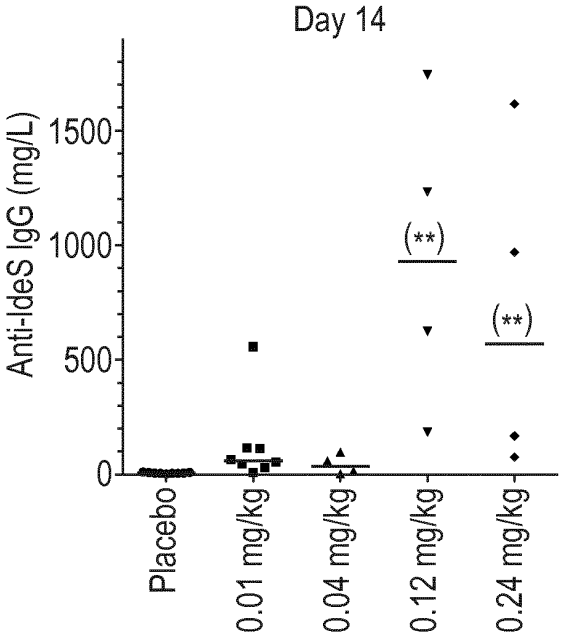


Fig. 9D

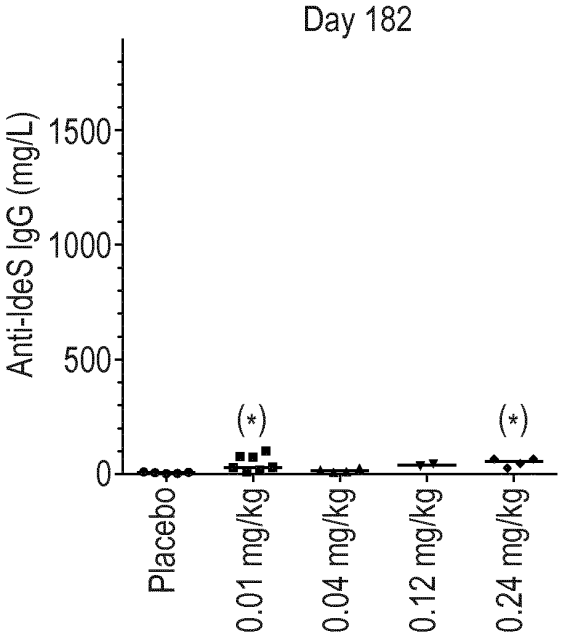


Fig. 10

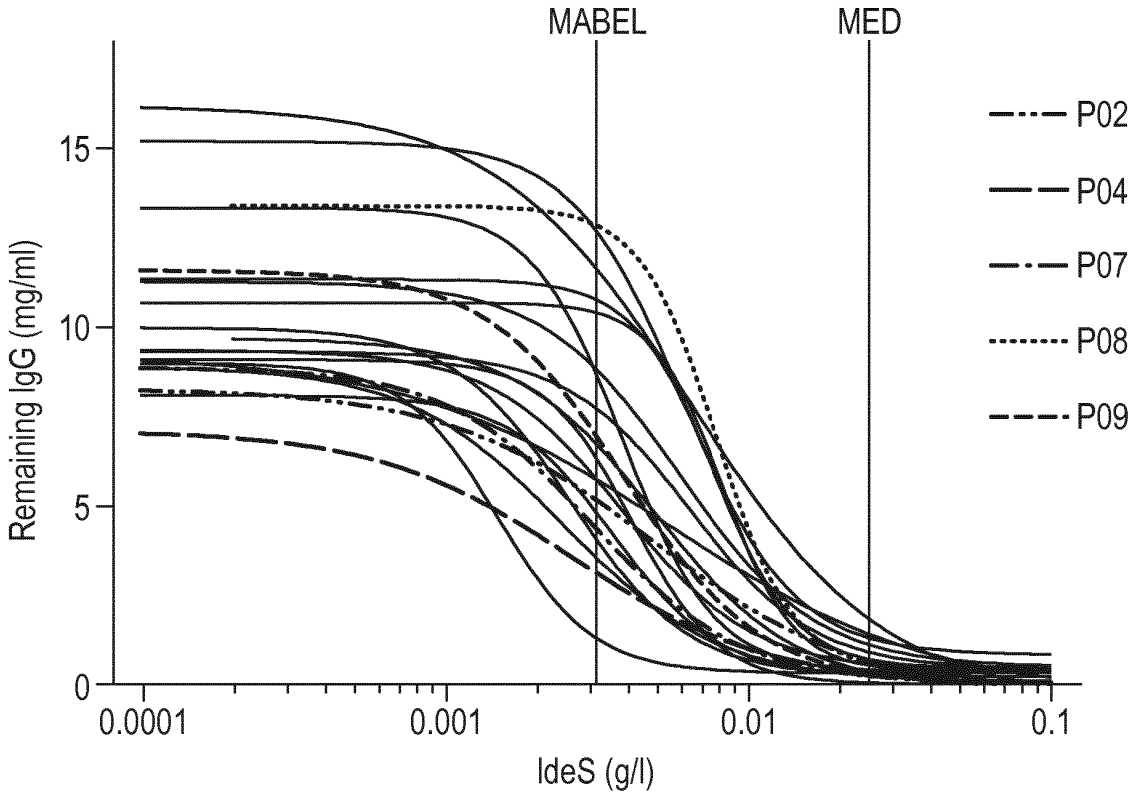

MABEL
MED
P02
P04
P07
P08
P09
Remaining IgG (mg/ml)
15
10
5
0
0.0001
0.001
0.01
0.1
IdeS (g/l)

Fig. 11

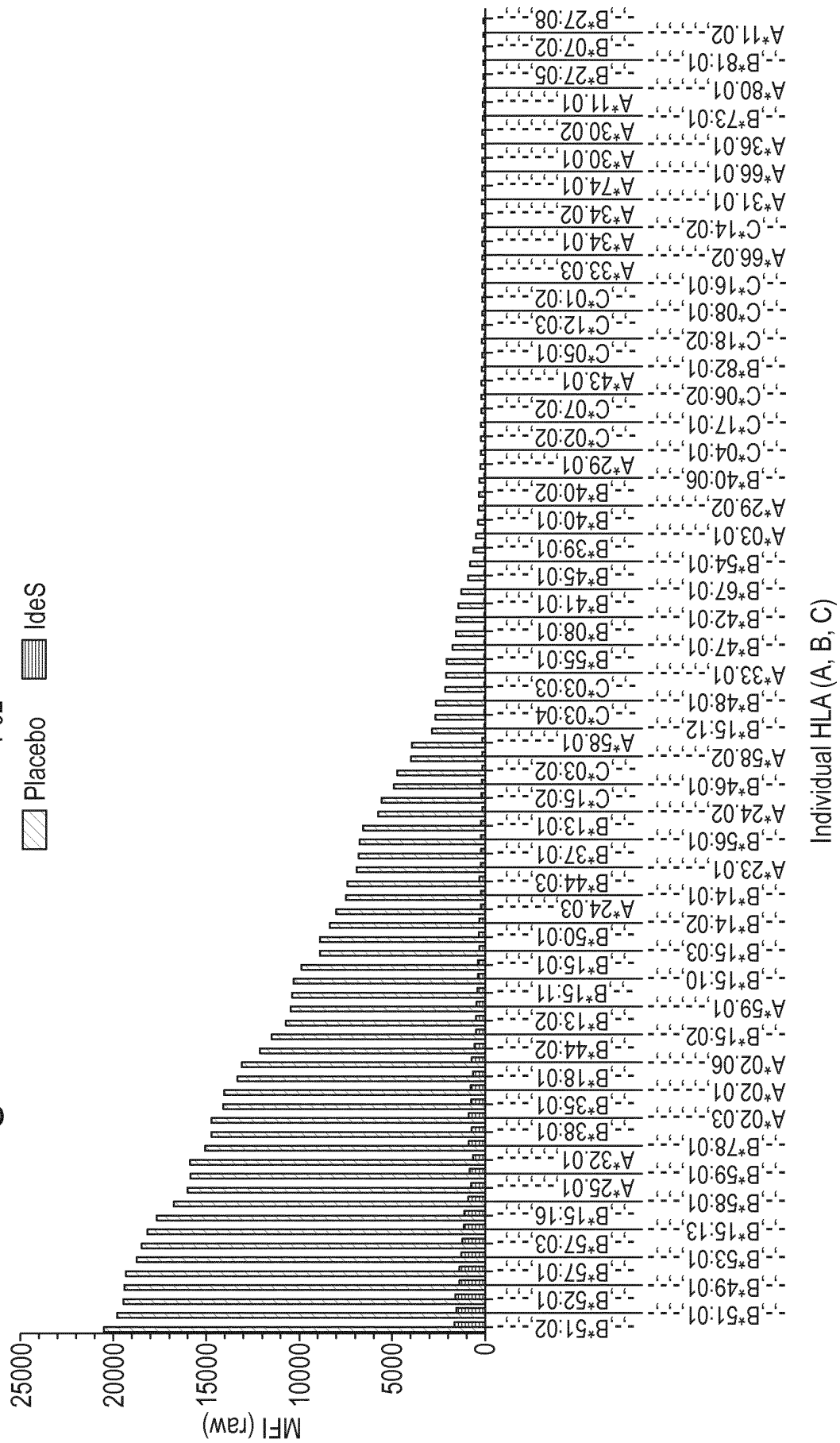

P02
Placebo
IdeS
MFI (raw)
0
5000
10000
15000
20000
25000
Individual HLA (A, B, C)
-,-,B*51:02,-,-,-
-,-,B*52:01,-,-,-
-,-,B*49:01,-,-,-
-,-,B*53:01,-,-,-
-,-,B*15:13,-,-,-
-,-,B*57:01,-,-,-
-,-,B*57:03,-,-,-
-,-,B*15:16,-,-,-
-,-,B*58:01,-,-,-
-,-,B*59:01,-,-,-
-,-,B*78:01,-,-,-
A*32:01,-,-,-,-,-
A*25:01,-,-,-,-,-
-,-,B*38:01,-,-,-
A*02:03,-,-,-,-,-
A*02:01,-,-,-,-,-
-,-,B*35:01,-,-,-
A*02:06,-,-,-,-,-
-,-,B*18:01,-,-,-
-,-,B*44:02,-,-,-
A*59:01,-,-,-,-,-
-,-,B*15:02,-,-,-
-,-,B*13:02,-,-,-
-,-,B*15:11,-,-,-
-,-,B*15:10,-,-,-
-,-,B*15:01,-,-,-
-,-,B*15:03,-,-,-
-,-,B*50:01,-,-,-
-,-,B*14:02,-,-,-
A*24:03,-,-,-,-,-
-,-,B*14:01,-,-,-
-,-,B*44:03,-,-,-
A*23:01,-,-,-,-,-
-,-,B*37:01,-,-,-
-,-,B*56:01,-,-,-
-,-,B*13:01,-,-,-
A*24:02,-,-,-,-,-
-,-,C*15:02,-,-,-
-,-,B*46:01,-,-,-
-,-,C*03:02,-,-,-
A*58:02,-,-,-,-,-
A*58:01,-,-,-,-,-
-,-,C*03:04,-,-,-
-,-,B*15:12,-,-,-
-,-,B*48:01,-,-,-
-,-,C*03:03,-,-,-
A*33:01,-,-,-,-,-
-,-,B*55:01,-,-,-
-,-,B*47:01,-,-,-
-,-,B*08:01,-,-,-
-,-,B*42:01,-,-,-
-,-,B*41:01,-,-,-
-,-,B*67:01,-,-,-
-,-,B*45:01,-,-,-
-,-,B*54:01,-,-,-
-,-,B*39:01,-,-,-
A*03:01,-,-,-,-,-
-,-,B*40:01,-,-,-
A*29:02,-,-,-,-,-
-,-,B*40:02,-,-,-
-,-,B*40:06,-,-,-
A*29:01,-,-,-,-,-
-,-,C*02:02,-,-,-
-,-,C*04:01,-,-,-
-,-,C*17:01,-,-,-
-,-,C*07:02,-,-,-
-,-,C*06:02,-,-,-
A*43:01,-,-,-,-,-
-,-,B*82:01,-,-,-
-,-,C*05:01,-,-,-
-,-,C*18:02,-,-,-
-,-,C*12:03,-,-,-
-,-,C*08:01,-,-,-
-,-,C*01:02,-,-,-
-,-,C*16:01,-,-,-
A*33:03,-,-,-,-,-
A*66:02,-,-,-,-,-
A*34:01,-,-,-,-,-
-,-,C*14:02,-,-,-
A*34:02,-,-,-,-,-
A*31:01,-,-,-,-,-
A*74:01,-,-,-,-,-
A*66:01,-,-,-,-,-
A*30:01,-,-,-,-,-
A*36:01,-,-,-,-,-
A*30:02,-,-,-,-,-
-,-,B*73:01,-,-,-
A*11:01,-,-,-,-,-
A*80:01,-,-,-,-,-
-,-,B*27:05,-,-,-
-,-,B*81:01,-,-,-
-,-,B*07:02,-,-,-
A*11:02,-,-,-,-,-
-,-,B*27:08,-,-,-

Fig. 11 (Cont.)

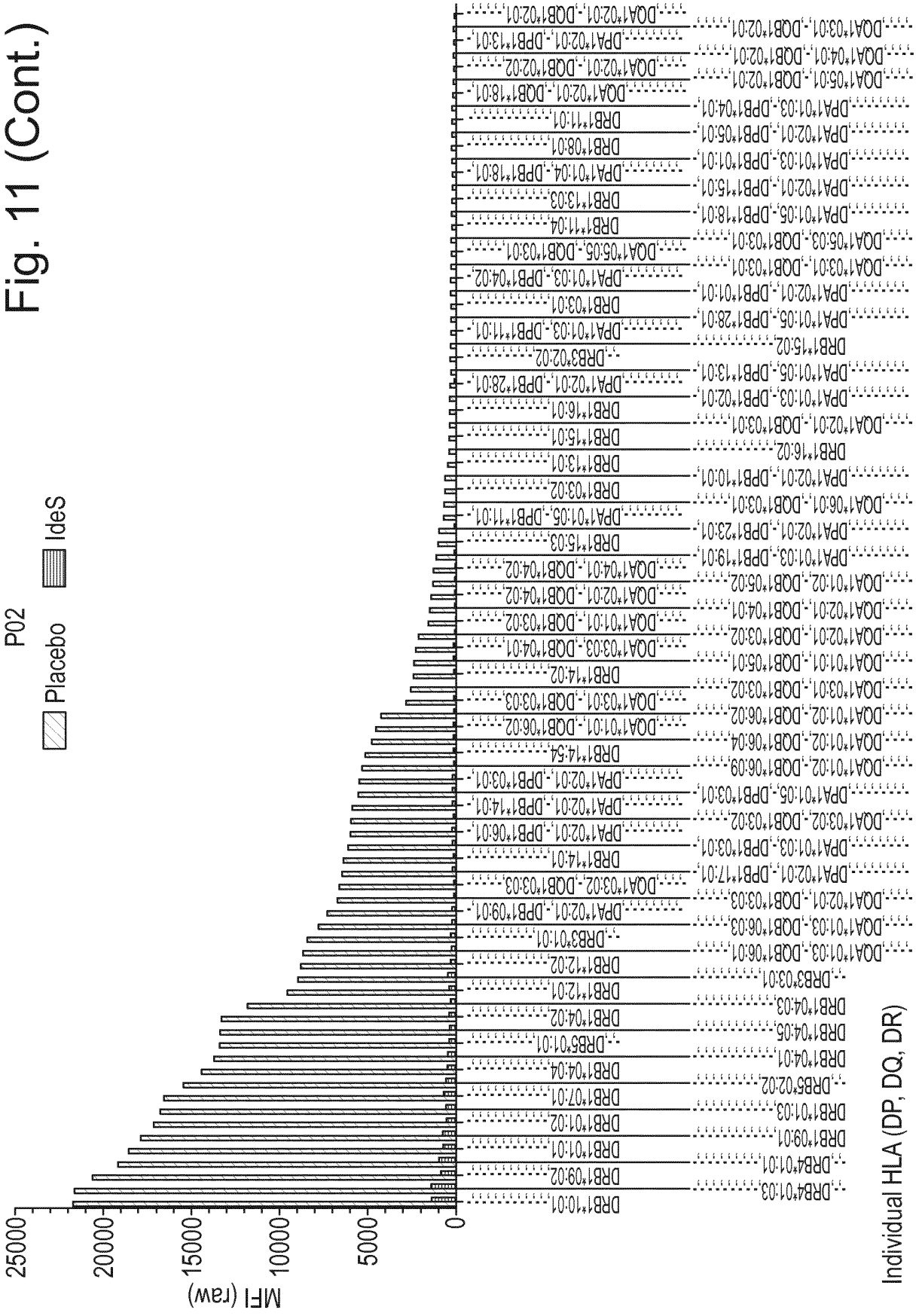

P02
Placebo
IdeS
MFI (raw)
25000
20000
15000
10000
5000
0
Individual HLA (DP, DQ, DR)
DRB1*10:01
DRB1*09:02
DRB1*01:01
DRB1*01:02
DRB1*07:01
DRB1*04:04
DRB5*01:01
DRB1*04:02
DRB1*12:01
DRB1*12:02
DRB3*01:01
DPA1*02:01-DPB1*09:01
DOA1*03:02-DQB1*03:03
DRB1*14:01
DPA1*02:01-DPB1*06:01
DPA1*02:01-DPB1*14:01
DPA1*02:01-DPB1*03:01
DRB1*14:54
DOA1*01:01-DQB1*06:02
DOA1*03:01-DQB1*03:03
DRB1*14:02
DOA1*03:03-DQB1*04:01
DOA1*01:01-DQB1*03:02
DOA1*02:01-DQB1*04:02
DOA1*04:01-DQB1*04:02
DRB1*15:03
DPA1*01:05-DPB1*11:01
DRB1*03:02
DRB1*13:01
DRB1*15:01
DRB1*16:01
DPA1*02:01-DPB1*28:01
DRB3*02:02
DPA1*01:03-DPB1*11:01
DRB1*03:01
DPA1*01:03-DPB1*04:02
DOA1*05:05-DQB1*03:01
DRB1*11:04
DRB1*13:03
DPA1*01:04-DPB1*18:01
DRB1*08:01
DRB1*11:01
DOA1*02:01-DQB1*18:01
DOA1*02:01-DQB1*02:02
DPA1*02:01-DPB1*13:01
DOA1*02:01-DQB1*02:01
DOA1*03:01-DQB1*02:01
DOA1*04:01-DQB1*02:01
DOA1*05:01-DQB1*02:01
DPA1*01:03-DPB1*04:01
DPA1*02:01-DPB1*05:01
DPA1*01:03-DPB1*01:01
DPA1*02:01-DPB1*15:01
DPA1*01:05-DPB1*18:01
DOA1*05:03-DQB1*03:01
DOA1*03:01-DQB1*03:01
DPA1*02:01-DPB1*01:01
DPA1*01:05-DPB1*28:01
DRB1*15:02
DPA1*01:03-DPB1*02:01
DPA1*01:05-DPB1*13:01
DOA1*02:01-DQB1*03:01
DRB1*16:02
DPA1*02:01-DPB1*10:01
DOA1*06:01-DQB1*03:01
DPA1*02:01-DPB1*23:01
DPA1*01:03-DPB1*19:01
DOA1*01:02-DQB1*05:02
DOA1*02:01-DQB1*04:01
DOA1*01:01-DQB1*05:01
DOA1*03:01-DQB1*03:02
DOA1*01:02-DQB1*06:02
DOA1*01:02-DQB1*06:04
DOA1*01:02-DQB1*06:09
DPA1*01:05-DPB1*03:01
DOA1*03:02-DQB1*03:02
DPA1*01:03-DPB1*03:01
DPA1*02:01-DPB1*17:01
DOA1*02:01-DQB1*03:03
DOA1*01:03-DQB1*06:03
DRB3*03:01
DOA1*01:03-DQB1*06:01
DOA1*02:01-DQB1*02:01
DOA1*03:01-DQB1*02:01

Fig. 12

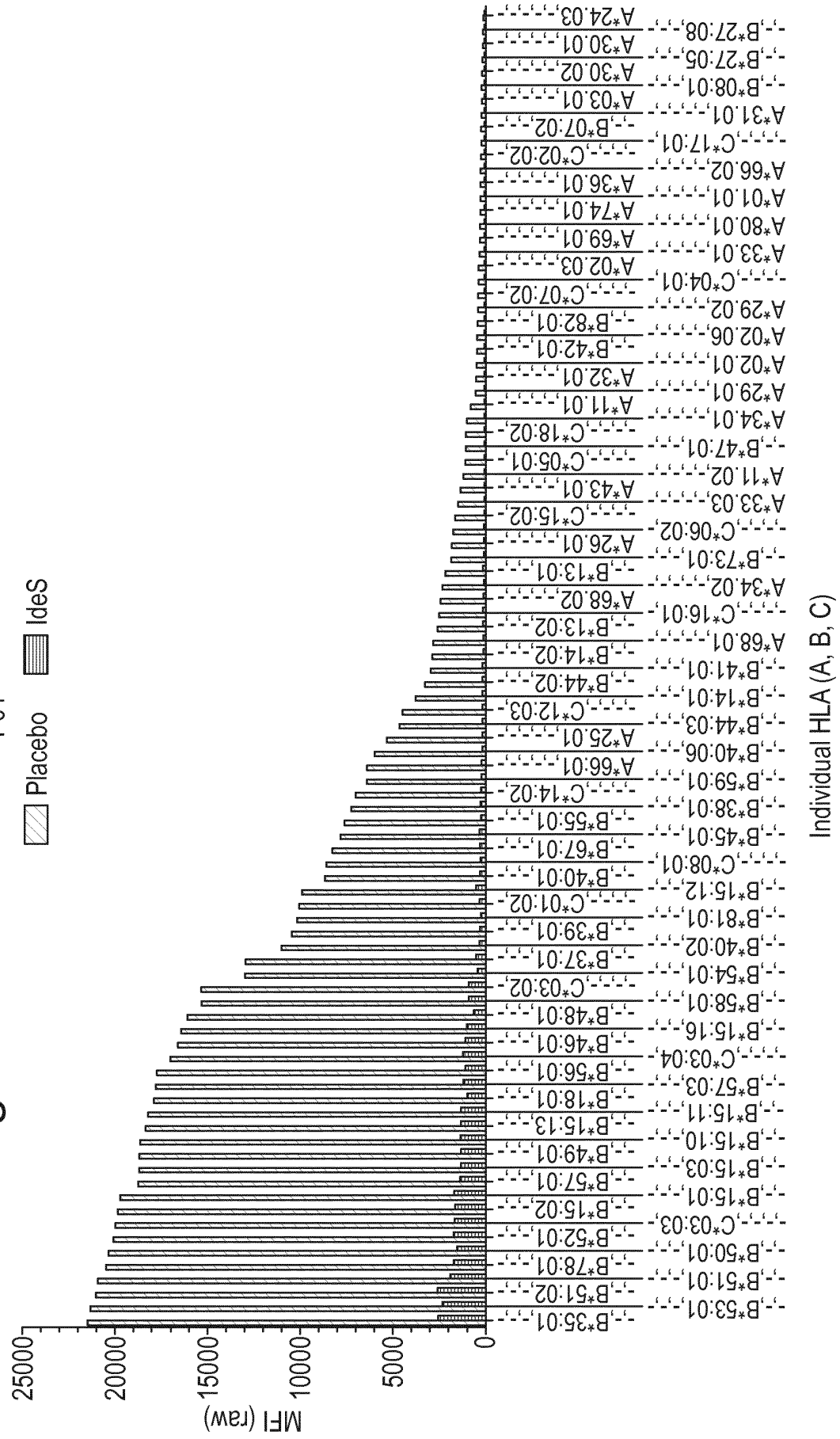

P04
Placebo
IdeS
MFI (raw)
25000
20000
15000
10000
5000
0
Individual HLA (A, B, C)
-,-,B*53:01,-,-,-
-,-,B*35:01,-,-,-
-,-,B*51:01,-,-,-
-,-,B*51:02,-,-,-
-,-,B*50:01,-,-,-
-,-,B*78:01,-,-,-
-,-,-,C*03:03,-,-
-,-,B*52:01,-,-,-
-,-,B*15:01,-,-,-
-,-,B*15:02,-,-,-
-,-,B*15:03,-,-,-
-,-,B*57:01,-,-,-
-,-,B*15:10,-,-,-
-,-,B*49:01,-,-,-
-,-,B*15:11,-,-,-
-,-,B*15:13,-,-,-
-,-,B*57:03,-,-,-
-,-,B*18:01,-,-,-
-,-,-,C*03:04,-,-
-,-,B*56:01,-,-,-
-,-,B*15:16,-,-,-
-,-,B*46:01,-,-,-
-,-,B*58:01,-,-,-
-,-,B*48:01,-,-,-
-,-,B*54:01,-,-,-
-,-,-,C*03:02,-,-
-,-,B*40:02,-,-,-
-,-,B*37:01,-,-,-
-,-,B*81:01,-,-,-
-,-,B*39:01,-,-,-
-,-,B*15:12,-,-,-
-,-,-,C*01:02,-,-
-,-,-,C*08:01,-,-
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-,-,B*67:01,-,-,-
-,-,B*38:01,-,-,-
-,-,B*55:01,-,-,-
-,-,B*59:01,-,-,-
-,-,-,C*14:02,-,-
-,-,B*40:06,-,-,-
-,-,A*66:01,-,-,-
-,-,B*44:03,-,-,-
-,-,A*25:01,-,-,-
-,-,B*14:01,-,-,-
-,-,-,C*12:03,-,-
-,-,B*41:01,-,-,-
-,-,B*44:02,-,-,-
A*68:01,-,-,-,-,-
-,-,B*14:02,-,-,-
-,-,B*13:02,-,-,-
-,-,-,C*16:01,-,-
A*34:02,-,-,-,-,-
A*68:02,-,-,-,-,-
-,-,B*13:01,-,-,-
-,-,B*73:01,-,-,-
-,-,-,C*06:02,-,-
A*26:01,-,-,-,-,-
A*33:03,-,-,-,-,-
-,-,-,C*15:02,-,-
A*11:02,-,-,-,-,-
A*43:01,-,-,-,-,-
-,-,B*47:01,-,-,-
-,-,-,C*05:01,-,-
A*34:01,-,-,-,-,-
-,-,-,C*18:02,-,-
A*29:01,-,-,-,-,-
A*11:01,-,-,-,-,-
A*02:01,-,-,-,-,-
A*32:01,-,-,-,-,-
A*02:06,-,-,-,-,-
-,-,B*42:01,-,-,-
A*29:02,-,-,-,-,-
-,-,B*82:01,-,-,-
-,-,-,C*07:02,-,-
-,-,-,C*04:01,-,-
A*33:01,-,-,-,-,-
A*02:03,-,-,-,-,-
A*80:01,-,-,-,-,-
A*69:01,-,-,-,-,-
A*01:01,-,-,-,-,-
A*74:01,-,-,-,-,-
A*66:02,-,-,-,-,-
A*36:01,-,-,-,-,-
-,-,-,C*02:02,-,-
-,-,-,C*17:01,-,-
A*31:01,-,-,-,-,-
-,-,B*07:02,-,-,-
A*03:01,-,-,-,-,-
-,-,B*08:01,-,-,-
A*30:02,-,-,-,-,-
-,-,B*27:05,-,-,-
A*30:01,-,-,-,-,-
-,-,B*27:08,-,-,-
A*24:03,-,-,-,-,-

Fig. 12 (Cont.)

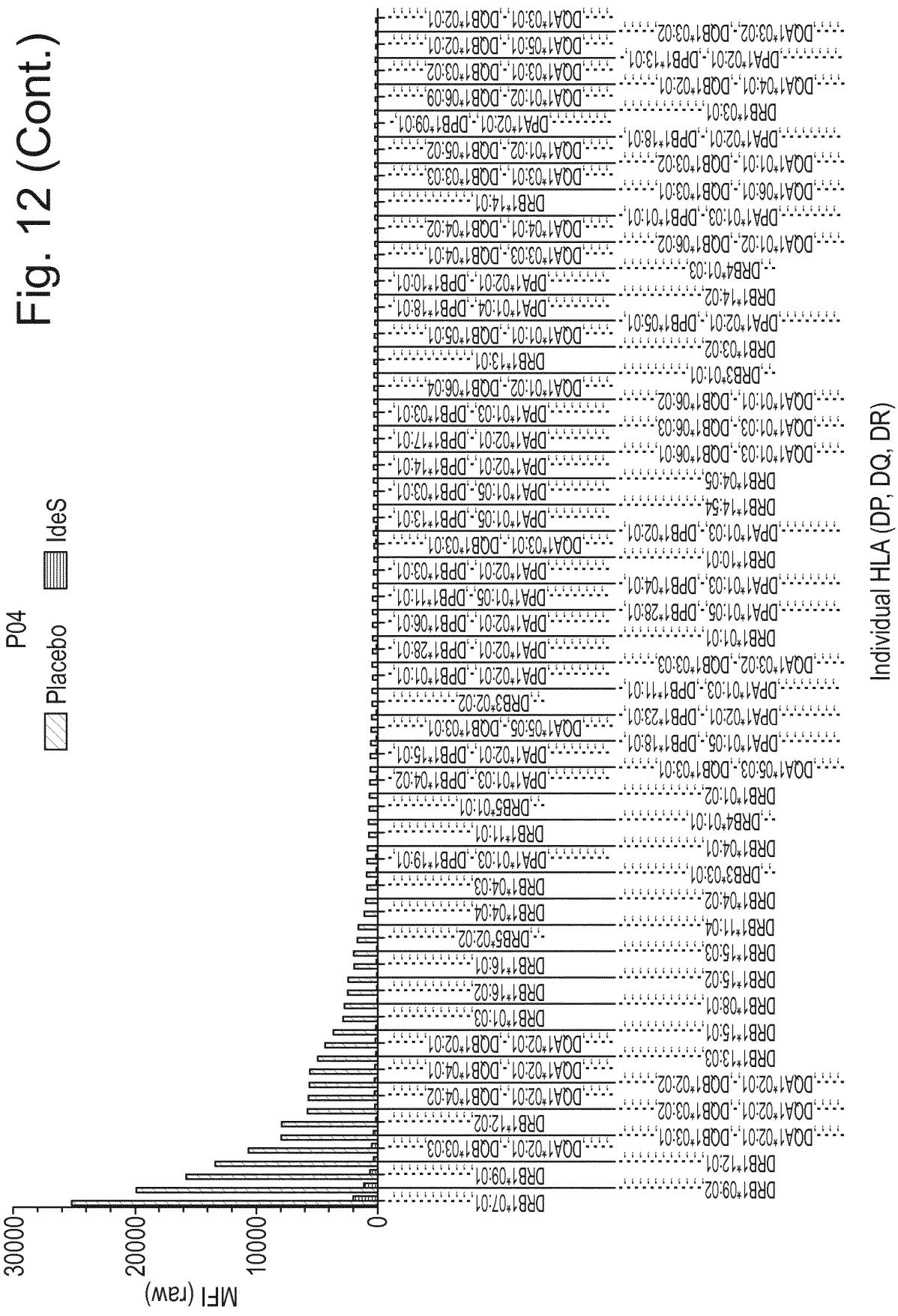

P04
Placebo
IdeS
MFI (raw)
30000
20000
10000
0
Individual HLA (DP, DQ, DR)
DRB1*09:02
DRB1*12:01
DRB1*09:01
DQA1*02:01-DQB1*03:01
DRB1*12:02
DQA1*02:01-DQB1*03:02
DQA1*02:01-DQB1*04:02
DQA1*02:01-DQB1*04:01
DQA1*02:01-DQB1*02:02
DRB1*13:03
DRB1*15:01
DRB1*08:01
DRB1*15:02
DRB1*15:03
DRB1*11:04
DRB1*04:02
DRB3*03:01
DRB1*04:01
DRB4*01:01
DRB1*02:02
DQA1*03:02-DQB1*03:01
DPA1*01:03-DPB1*11:01
DPA1*02:01-DPB1*23:01
DPA1*01:05-DPB1*18:01
DPA1*02:01-DPB1*15:01
DQA1*05:05-DQB1*03:01
DRB3*02:02
DPA1*02:01-DPB1*01:01
DPA1*02:01-DPB1*28:01
DPA1*02:01-DPB1*06:01
DPA1*01:05-DPB1*11:01
DPA1*02:01-DPB1*03:01
DQA1*03:01-DQB1*03:01
DPA1*01:05-DPB1*13:01
DPA1*01:05-DPB1*03:01
DPA1*02:01-DPB1*14:01
DPA1*01:05-DPB1*04:01
DRB1*14:54
DRB1*04:05
DPA1*01:03-DPB1*02:01
DRB1*10:01
DPA1*01:03-DPB1*04:01
DQA1*03:02-DQB1*03:03
DRB1*01:01
DPA1*01:05-DPB1*28:01
DPA1*01:03-DPB1*11:01
DRB3*02:02
DPA1*02:01-DPB1*01:01
DQA1*05:05-DQB1*03:01
DPA1*02:01-DPB1*15:01
DPA1*01:05-DPB1*18:01
DPA1*02:01-DPB1*23:01
DPA1*01:03-DPB1*11:01
DQA1*03:02-DQB1*03:03
DRB1*01:01
DPA1*01:05-DPB1*28:01
DPA1*02:01-DPB1*06:01
DPA1*01:05-DPB1*11:01
DPA1*02:01-DPB1*03:01
DQA1*03:01-DQB1*03:01
DPA1*01:05-DPB1*13:01
DPA1*01:05-DPB1*03:01
DPA1*02:01-DPB1*14:01
DPA1*01:05-DPB1*04:01
DRB1*14:54
DRB1*04:05
DPA1*01:03-DPB1*02:01
DRB1*10:01
DPA1*01:03-DPB1*04

Fig. 13

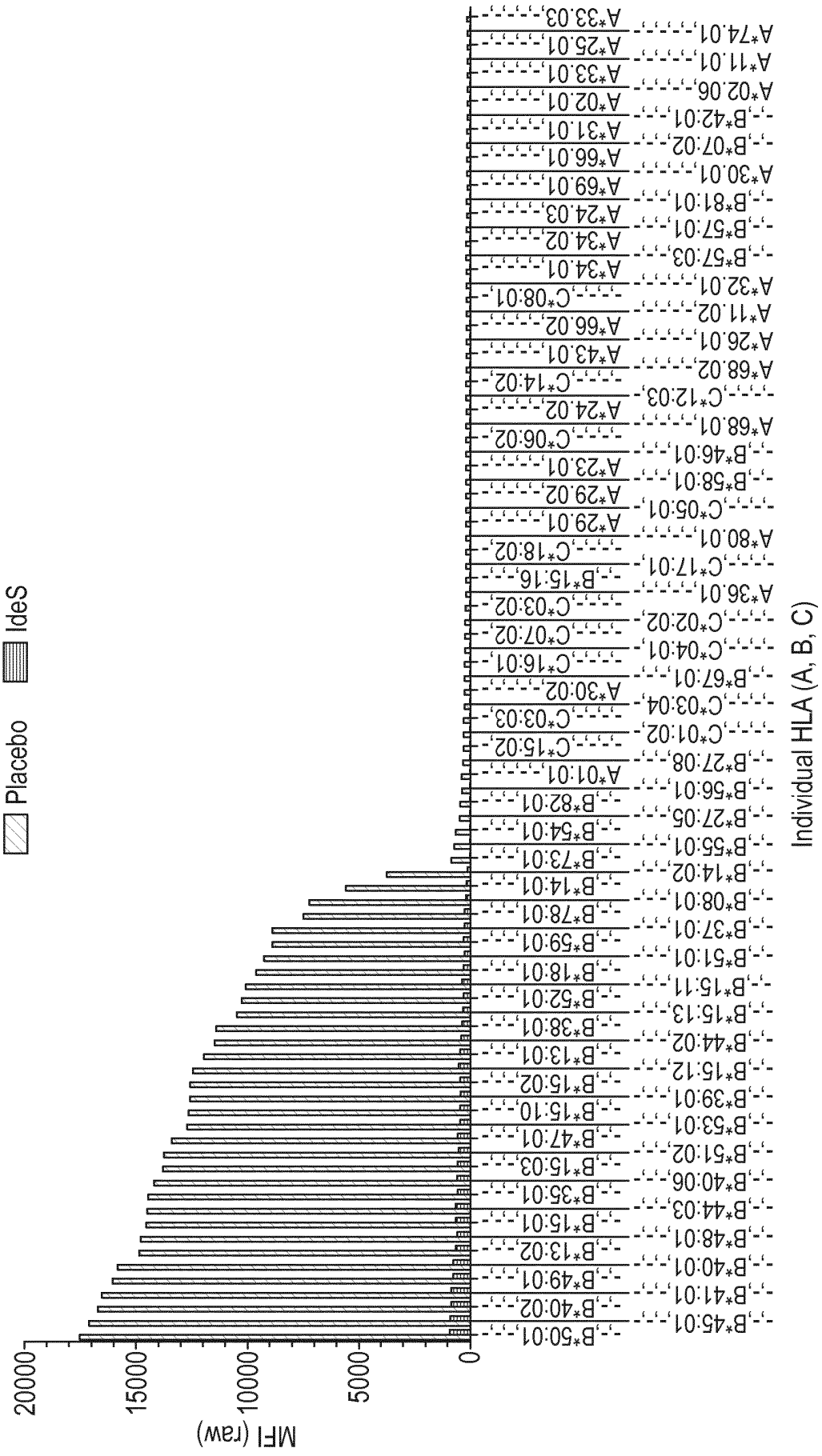

P07
Placebo
IdeS
MFI (raw)
20000
15000
10000
5000
0
Individual HLA (A, B, C)
-,-,B*45:01,-,-,-
-,-,B*50:01,-,-,-
-,-,B*40:02,-,-,-
-,-,B*41:01,-,-,-
-,-,B*49:01,-,-,-
-,-,B*40:01,-,-,-
-,-,B*13:02,-,-,-
-,-,B*48:01,-,-,-
-,-,B*15:01,-,-,-
-,-,B*44:03,-,-,-
-,-,B*35:01,-,-,-
-,-,B*40:06,-,-,-
-,-,B*15:03,-,-,-
-,-,B*51:02,-,-,-
-,-,B*47:01,-,-,-
-,-,B*53:01,-,-,-
-,-,B*15:10,-,-,-
-,-,B*39:01,-,-,-
-,-,B*15:02,-,-,-
-,-,B*15:12,-,-,-
-,-,B*13:01,-,-,-
-,-,B*44:02,-,-,-
-,-,B*38:01,-,-,-
-,-,B*15:13,-,-,-
-,-,B*52:01,-,-,-
-,-,B*15:11,-,-,-
-,-,B*18:01,-,-,-
-,-,B*51:01,-,-,-
-,-,B*59:01,-,-,-
-,-,B*37:01,-,-,-
-,-,B*78:01,-,-,-
-,-,B*08:01,-,-,-
-,-,B*14:01,-,-,-
-,-,B*14:02,-,-,-
-,-,B*73:01,-,-,-
-,-,B*55:01,-,-,-
-,-,B*54:01,-,-,-
-,-,B*27:05,-,-,-
-,-,B*82:01,-,-,-
-,-,B*56:01,-,-,-
-,-,B*27:08,-,-,-
A*01:01,-,-,-,-,-
-,-,-,C*01:02,-,-
-,-,-,C*15:02,-,-
-,-,-,C*03:04,-,-
-,-,-,C*03:03,-,-
A*30:02,-,-,-,-,-
-,-,B*67:01,-,-,-
-,-,-,C*16:01,-,-
-,-,-,C*04:01,-,-
-,-,-,C*07:02,-,-
-,-,-,C*02:02,-,-
-,-,-,C*03:02,-,-
A*36:01,-,-,-,-,-
-,-,B*15:16,-,-,-
-,-,-,C*17:01,-,-
-,-,-,C*18:02,-,-
A*80:01,-,-,-,-,-
A*29:01,-,-,-,-,-
-,-,-,C*05:01,-,-
A*29:02,-,-,-,-,-
-,-,B*58:01,-,-,-
A*23:01,-,-,-,-,-
-,-,B*46:01,-,-,-
-,-,-,C*06:02,-,-
A*68:01,-,-,-,-,-
A*24:02,-,-,-,-,-
-,-,-,C*12:03,-,-
-,-,-,C*14:02,-,-
A*68:02,-,-,-,-,-
A*43:01,-,-,-,-,-
A*26:01,-,-,-,-,-
A*66:02,-,-,-,-,-
A*11:02,-,-,-,-,-
-,-,-,C*08:01,-,-
A*32:01,-,-,-,-,-
A*34:01,-,-,-,-,-
-,-,B*57:03,-,-,-
A*34:02,-,-,-,-,-
-,-,B*57:01,-,-,-
A*24:03,-,-,-,-,-
-,-,B*81:01,-,-,-
A*69:01,-,-,-,-,-
A*30:01,-,-,-,-,-
A*66:01,-,-,-,-,-
-,-,B*07:02,-,-,-
A*31:01,-,-,-,-,-
-,-,B*42:01,-,-,-
A*02:01,-,-,-,-,-
A*02:06,-,-,-,-,-
A*33:01,-,-,-,-,-
A*11:01,-,-,-,-,-
A*25:01,-,-,-,-,-
A*74:01,-,-,-,-,-
A*33:03,-,-,-,-,-

Fig. 13 (Cont.)

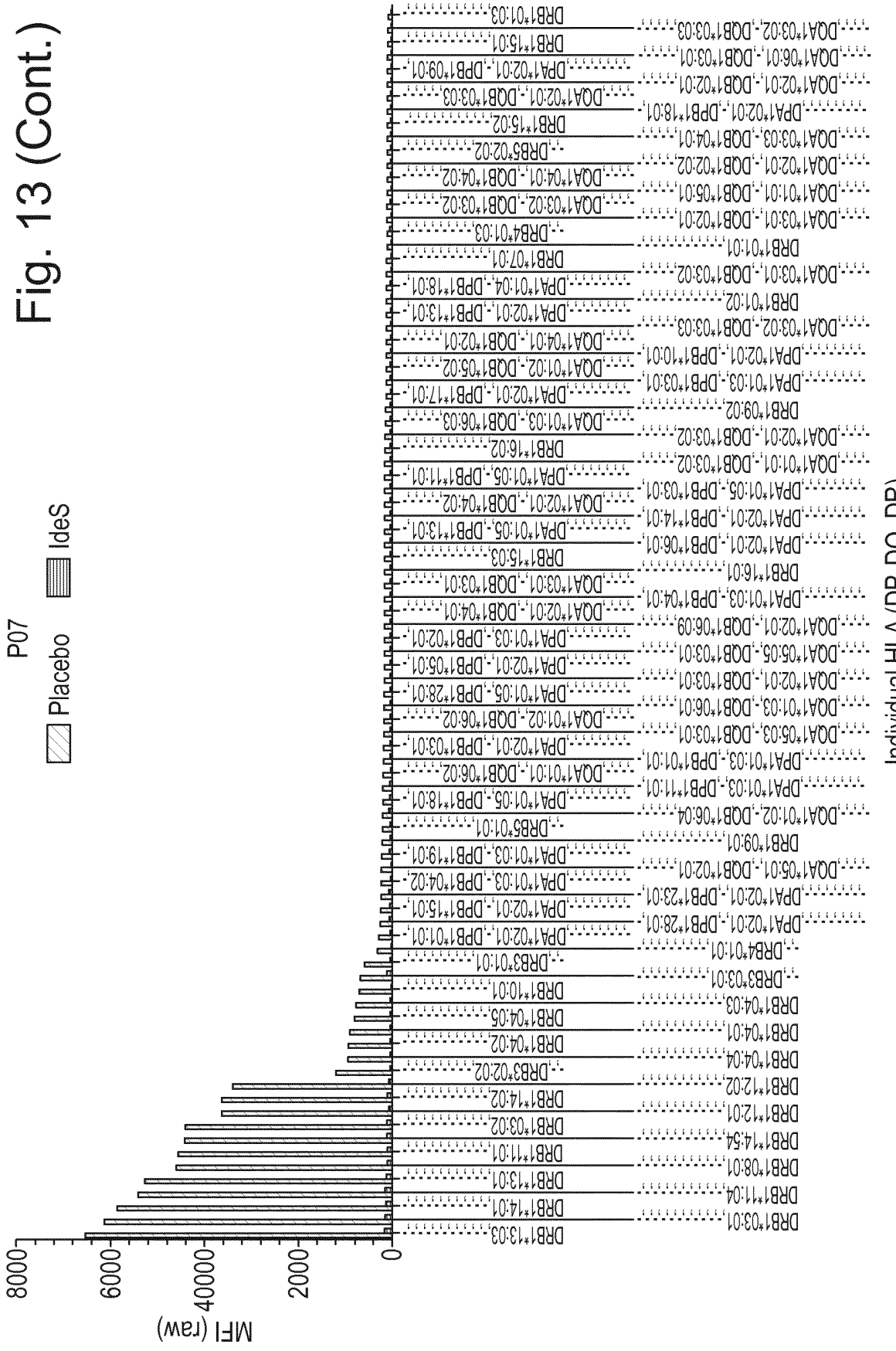

P07
Placebo
IdeS
MFI (raw)
8000
6000
40000
2000
0
Individual HLA (DP, DQ, DR)
DRB1*13:03
DRB1*14:01
DRB1*13:01
DRB1*11:01
DRB1*03:02
DRB1*14:02
DRB3*02:02
DRB1*04:02
DRB1*04:05
DRB1*10:01
DRB3*01:01
DRB4*01:01
DPA1*02:01-,DPB1*01:01-
DPA1*02:01-,DPB1*15:01-
DPA1*01:03-,DPB1*04:02-
DPA1*01:03-,DPB1*19:01-
DRB5*01:01
DPA1*01:05-,DPB1*18:01-
DQA1*01:01-,DQB1*06:02-
DPA1*02:01-,DPB1*03:01-
DQA1*01:02-,DQB1*06:02-
DPA1*01:05-,DPB1*28:01-
DPA1*02:01-,DPB1*05:01-
DPA1*01:03-,DPB1*02:01-
DQA1*02:01-,DQB1*04:01-
DQA1*03:01-,DQB1*03:01-
DRB1*15:03
DPA1*01:05-,DPB1*13:01-
DQA1*02:01-,DQB1*04:02-
DPA1*01:05-,DPB1*11:01-
DRB1*16:01
DPA1*02:01-,DPB1*06:01-
DPA1*01:03-,DPB1*04:01-
DQA1*02:01-,DQB1*04:01-
DPA1*02:01-,DPB1*02:01-
DQA1*01:01-,DQB1*06:09-
DQA1*02:01-,DQB1*03:01-
DQA1*05:05-,DQB1*03:01-
DQA1*02:01-,DQB1*03:01-
DQA1*01:03-,DQB1*06:01-
DQA1*05:03-,DQB1*03:01-
DPA1*02:01-,DPB1*03:01-
DQA1*03:02-,DQB1*03:02-
DRB1*07:01
DPA1*01:04-,DPB1*18:01-
DRB1*01:02
DPA1*02:01-,DPB1*13:01-
DQA1*04:01-,DQB1*02:01-
DPA1*02:01-,DPB1*10:01-
DQA1*01:02-,DQB1*05:02-
DPA1*02:01-,DPB1*17:01-
DRB1*09:02
DQA1*01:03-,DQB1*06:03-
DRB1*16:02
DQA1*02:01-,DQB1*03:02-
DQA1*01:01-,DQB1*03:02-
DPA1*01:05-,DPB1*03:01-
DQA1*02:01-,DQB1*04:02-
DPA1*01:05-,DPB1*11:01-
DRB1*01:03
DQA1*03:02-,DQB1*03:02-
DQA1*04:01-,DQB1*04:02-
DRB5*02:02
DRB1*15:02
DQA1*02:01-,DQB1*03:03-
DPA1*02:01-,DPB1*09:01-
DRB1*15:01
DRB1*01:03
DQA1*03:02-,DQB1*03:03-
DQA1*06:01-,DQB1*03:01-
DQA1*02:01-,DQB1*02:01-
DQA1*03:02-,DQB1*03:03-

Fig. 14

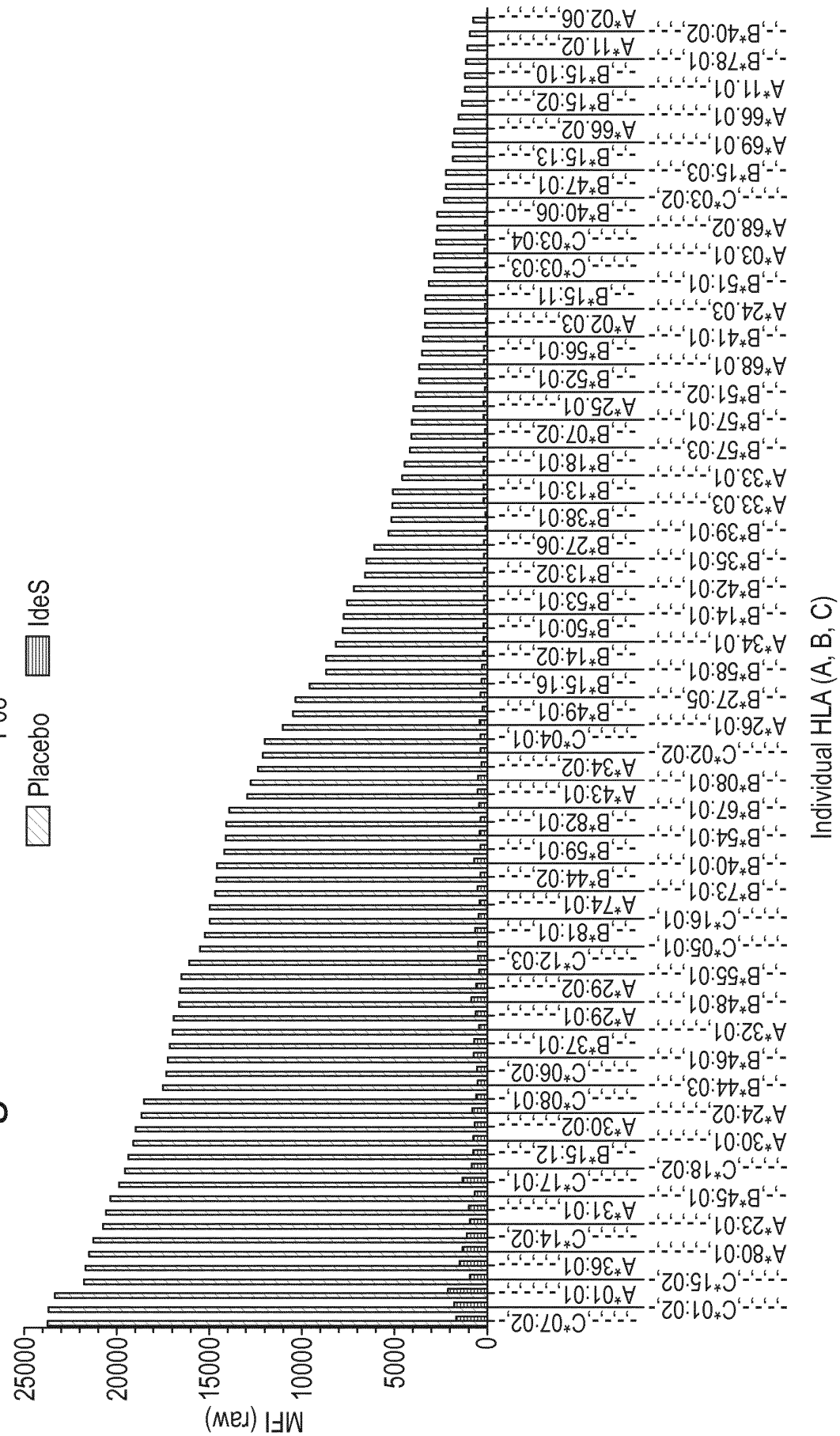

P08
Placebo
IdeS
MFI (raw)
25000
20000
15000
10000
5000
0
Individual HLA (A, B, C)
-,-,-,-,C*07:02,-
-,-,-,-,C*01:02,-
A*01:01,-,-,-,-
-,-,-,-,C*15:02,-
A*36:01,-,-,-,-
A*80:01,-,-,-,-
-,-,-,-,C*14:02,-
A*23:01,-,-,-,-
A*31:01,-,-,-,-
-,B*45:01,-,-
-,-,-,-,C*17:01,-
-,-,-,-,C*18:02,-
-,B*15:12,-,-
A*30:01,-,-,-,-
A*30:02,-,-,-,-
A*24:02,-,-,-,-
-,-,-,-,C*08:01,-
-,B*44:03,-,-
-,-,-,-,C*06:02,-
-,B*46:01,-,-
-,B*37:01,-,-
A*32:01,-,-,-,-
A*29:01,-,-,-,-
-,B*48:01,-,-
A*29:02,-,-,-,-
-,B*55:01,-,-
-,-,-,-,C*12:03,-
-,-,-,-,C*05:01,-
-,B*81:01,-,-
-,-,-,-,C*16:01,-
A*74:01,-,-,-,-
-,B*73:01,-,-
-,B*44:02,-,-
-,B*40:01,-,-
-,B*59:01,-,-
-,B*54:01,-,-
-,B*82:01,-,-
-,B*67:01,-,-
A*43:01,-,-,-,-
-,B*08:01,-,-
A*34:02,-,-,-,-
-,-,-,-,C*02:02,-
-,-,-,-,C*04:01,-
A*26:01,-,-,-,-
-,B*49:01,-,-
-,B*27:05,-,-
-,B*58:01,-,-
-,B*15:16,-,-
A*34:01,-,-,-,-
-,B*14:02,-,-
-,B*50:01,-,-
-,B*14:01,-,-
-,B*53:01,-,-
-,B*42:01,-,-
-,B*13:02,-,-
-,B*35:01,-,-
-,B*27:06,-,-
-,B*39:01,-,-
-,B*38:01,-,-
A*33:03,-,-,-,-
A*33:01,-,-,-,-
-,B*13:01,-,-
-,B*18:01,-,-
-,B*57:03,-,-
-,B*07:02,-,-
-,B*57:01,-,-
A*25:01,-,-,-,-
-,B*51:02,-,-
-,B*52:01,-,-
A*68:01,-,-,-,-
-,B*56:01,-,-
-,B*41:01,-,-
A*02:03,-,-,-,-
-,B*15:11,-,-
-,B*51:01,-,-
-,-,-,-,C*03:03,-
A*03:01,-,-,-,-
-,-,-,-,C*03:04,-
A*68:02,-,-,-,-
-,B*40:06,-,-
-,B*47:01,-,-
-,-,-,-,C*03:02,-
-,B*15:03,-,-
-,B*15:13,-,-
A*69:01,-,-,-,-
A*66:02,-,-,-,-
A*66:01,-,-,-,-
-,B*15:02,-,-
A*11:01,-,-,-,-
-,B*15:10,-,-
-,B*78:01,-,-
A*11:02,-,-,-,-
-,B*40:02,-,-
A*02:06,-,-,-,-

Fig. 14 (Cont.)

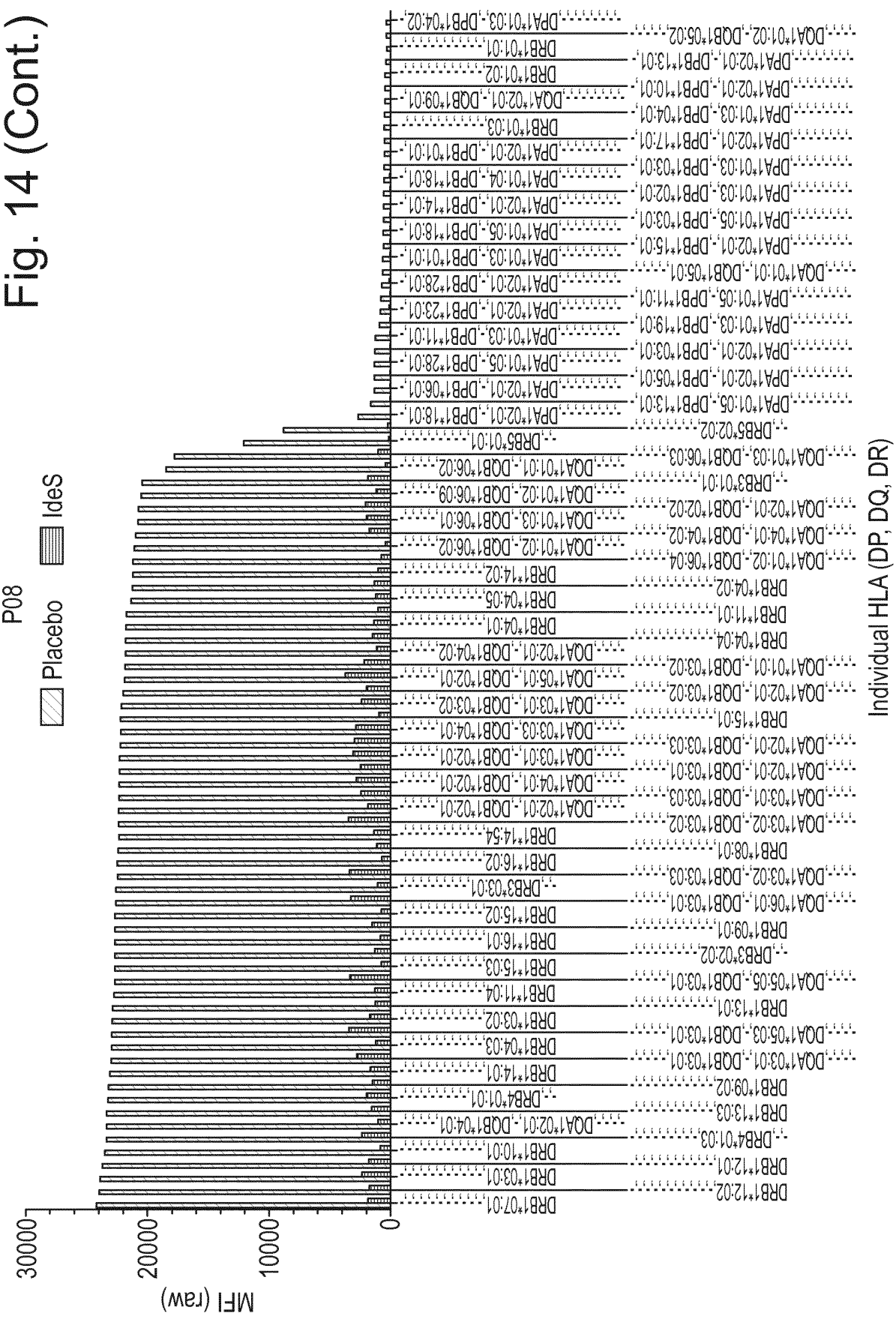

P08
Placebo
IdeS
MFI (raw)
30000
20000
10000
0
Individual HLA (DP, DQ, DR)
DRB1*12:02
DRB1*12:01
DRB4*01:03
DRB1*13:03
DRB1*09:02
DQA1*03:01-DQB1*03:01
DRB1*13:01
DQA1*05:03-DQB1*03:01
DQA1*05:05-DQB1*03:01
DRB1*09:01
DQA1*06:01-DQB1*03:01
DQA1*03:02-DQB1*03:03
DRB1*08:01
DQA1*03:02-DQB1*03:02
DQA1*03:01-DQB1*03:03
DQA1*02:01-DQB1*03:01
DQA1*02:01-DQB1*03:03
DRB1*15:01
DQA1*02:01-DQB1*03:02
DQA1*01:01-DQB1*03:02
DRB1*04:04
DRB1*11:01
DQA1*01:02-DQB1*06:04
DRB1*04:02
DQA1*04:01-DQB1*04:02
DQA1*01:02-DQB1*06:02
DQA1*01:03-DQB1*06:01
DRB1*14:02
DRB1*04:05
DRB1*04:01
DQA1*02:01-DQB1*04:02
DQA1*05:01-DQB1*02:01
DQA1*03:01-DQB1*03:02
DQA1*03:03-DQB1*04:01
DQA1*03:01-DQB1*02:01
DQA1*04:01-DQB1*02:01
DQA1*02:01-DQB1*02:01
DRB1*14:54
DRB1*16:02
DRB3*03:01
DRB1*15:02
DRB1*16:01
DRB1*15:03
DRB1*11:04
DRB1*03:02
DRB1*04:03
DRB1*14:01
DRB4*01:01
DQA1*02:01-DQB1*04:01
DRB1*10:01
DRB1*03:01
DRB1*07:01
DRB5*02:02
DRB3*01:01
DQA1*01:03-DQB1*06:03
DQA1*01:01-DQB1*06:02
DQA1*01:02-DQB1*06:09
DQA1*01:03-DQB1*06:01
DQA1*01:02-DQB1*06:02
DRB5*01:01
DPA1*02:01-DPB1*18:01
DPA1*01:05-DPB1*13:01
DPA1*02:01-DPB1*06:01
DPA1*02:01-DPB1*05:01
DPA1*01:05-DPB1*28:01
DPA1*01:03-DPB1*03:01
DPA1*01:03-DPB1*11:01
DPA1*02:01-DPB1*23:01
DPA1*01:05-DPB1*11:01
DQA1*01:01-DQB1*05:01
DPA1*02:01-DPB1*28:01
DPA1*01:03-DPB1*01:01
DPA1*01:05-DPB1*18:01
DPA1*02:01-DPB1*15:01
DPA1*01:05-DPB1*03:01
DPA1*01:03-DPB1*02:01
DPA1*01:03-DPB1*03:01
DPA1*01:04-DPB1*18:01
DPA1*02:01-DPB1*14:01
DPA1*02:01-DPB1*01:01
DRB1*03:03
DPA1*02:01-DPB1*17:01
DPA1*01:03-DPB1*04:01
DPA1*02:01-DPB1*10:01
DQA1*02:01-DQB1*09:01
DRB1*01:02
DRB1*01:01
DPA1*01:03-DPB1*04:02
DQA1*01:02-DQB1*05:02
DPA1*02:01-DPB1*13:01

Fig. 15

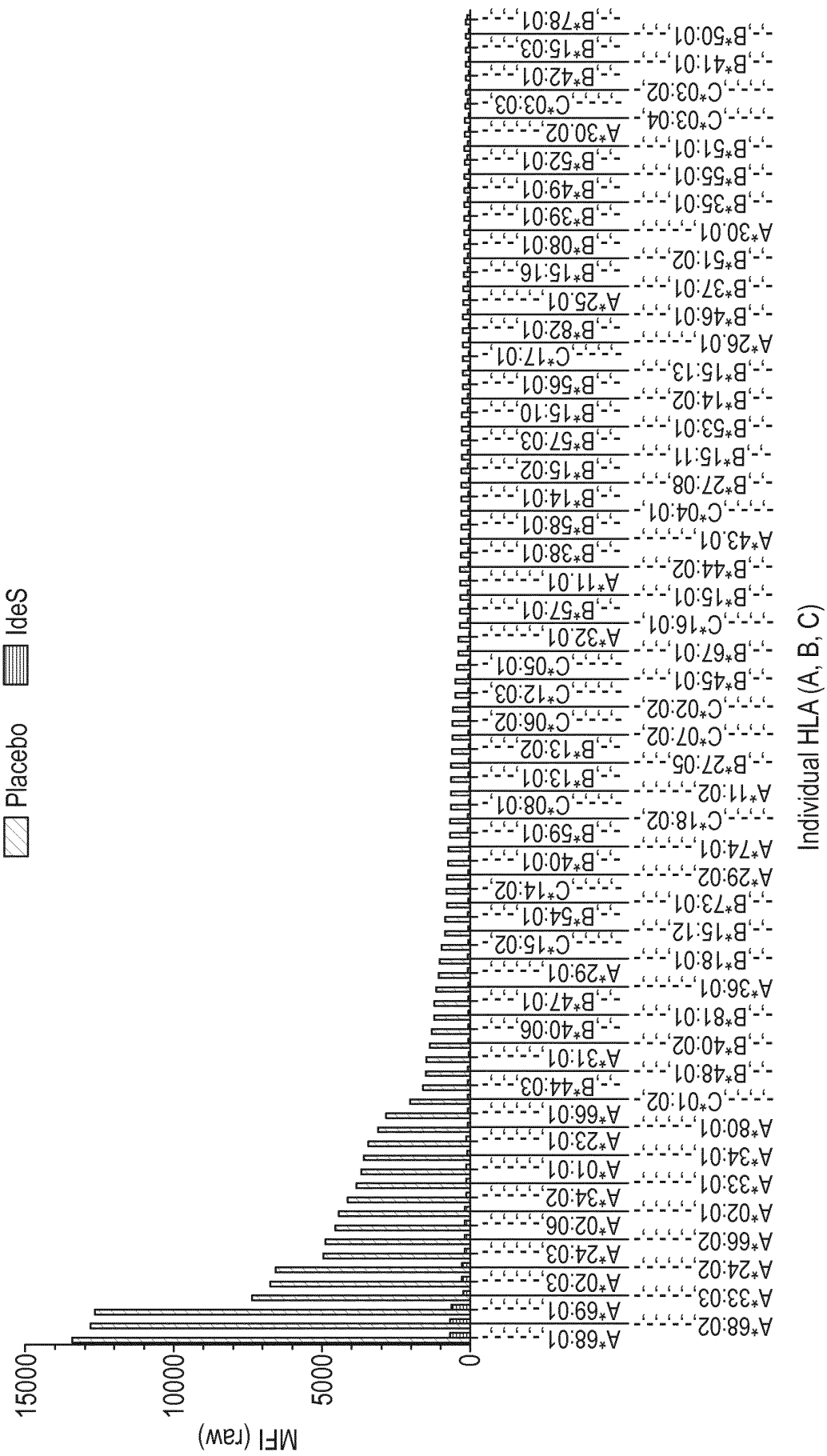

P09
Placebo
IdeS
MFI (raw)
15000
10000
5000
0
Individual HLA (A, B, C)
A*68:01,-,-,-,-,-
A*68:02,-,-,-,-,-
A*69:01,-,-,-,-,-
A*33:03,-,-,-,-,-
A*02:03,-,-,-,-,-
A*24:02,-,-,-,-,-
A*24:03,-,-,-,-,-
A*66:02,-,-,-,-,-
A*02:06,-,-,-,-,-
A*02:01,-,-,-,-,-
A*34:02,-,-,-,-,-
A*33:01,-,-,-,-,-
A*01:01,-,-,-,-,-
A*34:01,-,-,-,-,-
A*23:01,-,-,-,-,-
A*80:01,-,-,-,-,-
A*66:01,-,-,-,-,-
-,-,-,-,C*01:02,-
-,-,B*44:03,-,-,-
-,-,B*48:01,-,-,-
A*31:01,-,-,-,-,-
-,-,B*40:02,-,-,-
-,-,B*40:06,-,-,-
-,-,B*81:01,-,-,-
A*36:01,-,-,-,-,-
-,-,B*47:01,-,-,-
A*29:01,-,-,-,-,-
-,-,B*18:01,-,-,-
-,-,B*15:12,-,-,-
-,-,-,-,C*15:02,-
-,-,B*54:01,-,-,-
-,-,B*73:01,-,-,-
-,-,-,-,C*14:02,-
A*29:02,-,-,-,-,-
-,-,B*40:01,-,-,-
A*74:01,-,-,-,-,-
-,-,B*59:01,-,-,-
-,-,-,-,C*18:02,-
-,-,-,-,C*08:01,-
A*11:02,-,-,-,-,-
-,-,B*13:01,-,-,-
-,-,B*27:05,-,-,-
-,-,B*13:02,-,-,-
-,-,-,-,C*07:02,-
-,-,-,-,C*06:02,-
-,-,-,-,C*02:02,-
-,-,-,-,C*12:03,-
-,-,B*45:01,-,-,-
-,-,-,-,C*05:01,-
-,-,B*67:01,-,-,-
A*32:01,-,-,-,-,-
-,-,-,-,C*16:01,-
-,-,B*57:01,-,-,-
-,-,B*15:01,-,-,-
A*11:01,-,-,-,-,-
-,-,B*44:02,-,-,-
-,-,B*38:01,-,-,-
A*43:01,-,-,-,-,-
-,-,B*58:01,-,-,-
-,-,-,-,C*04:01,-
-,-,B*14:01,-,-,-
-,-,B*27:08,-,-,-
-,-,B*15:02,-,-,-
-,-,B*15:11,-,-,-
-,-,B*57:03,-,-,-
-,-,B*53:01,-,-,-
-,-,B*15:10,-,-,-
-,-,B*14:02,-,-,-
-,-,B*56:01,-,-,-
-,-,B*15:13,-,-,-
-,-,-,-,C*17:01,-
A*26:01,-,-,-,-,-
-,-,B*82:01,-,-,-
-,-,B*46:01,-,-,-
A*25:01,-,-,-,-,-
-,-,B*37:01,-,-,-
-,-,B*15:16,-,-,-
-,-,B*51:02,-,-,-
-,-,B*08:01,-,-,-
A*30:01,-,-,-,-,-
-,-,B*39:01,-,-,-
-,-,B*35:01,-,-,-
-,-,B*49:01,-,-,-
-,-,B*55:01,-,-,-
-,-,B*52:01,-,-,-
-,-,B*51:01,-,-,-
A*30:02,-,-,-,-,-
-,-,-,-,C*03:04,-
-,-,-,-,C*03:03,-
-,-,-,-,C*03:02,-
-,-,B*42:01,-,-,-
-,-,B*41:01,-,-,-
-,-,B*15:03,-,-,-
-,-,B*50:01,-,-,-
-,-,B*78:01,-,-,-

Fig. 15 (Cont.)

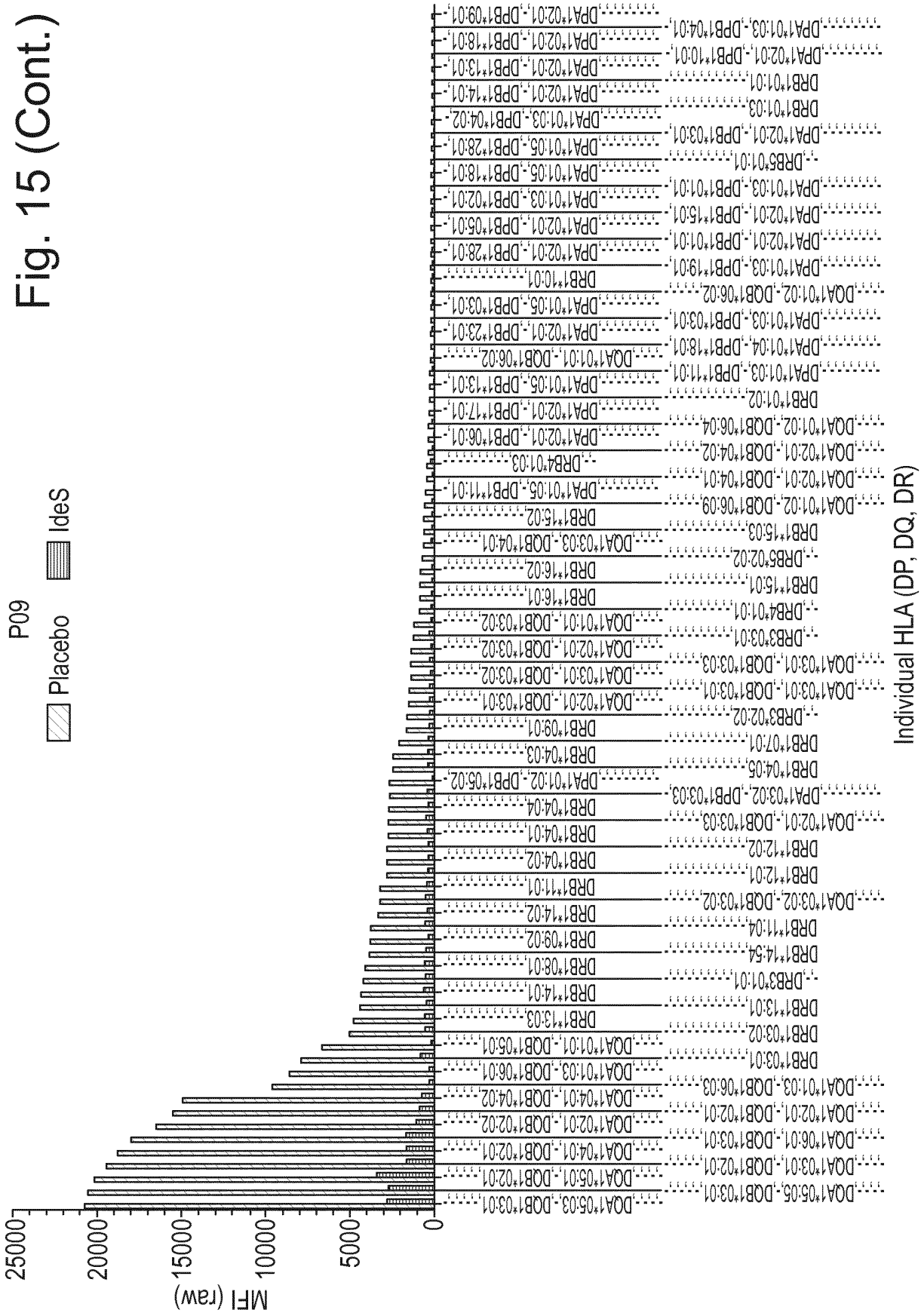

P09
Placebo
IdeS
MFI (raw)
25000
20000
15000
10000
5000
0
Individual HLA (DP, DQ, DR)

Fig. 16

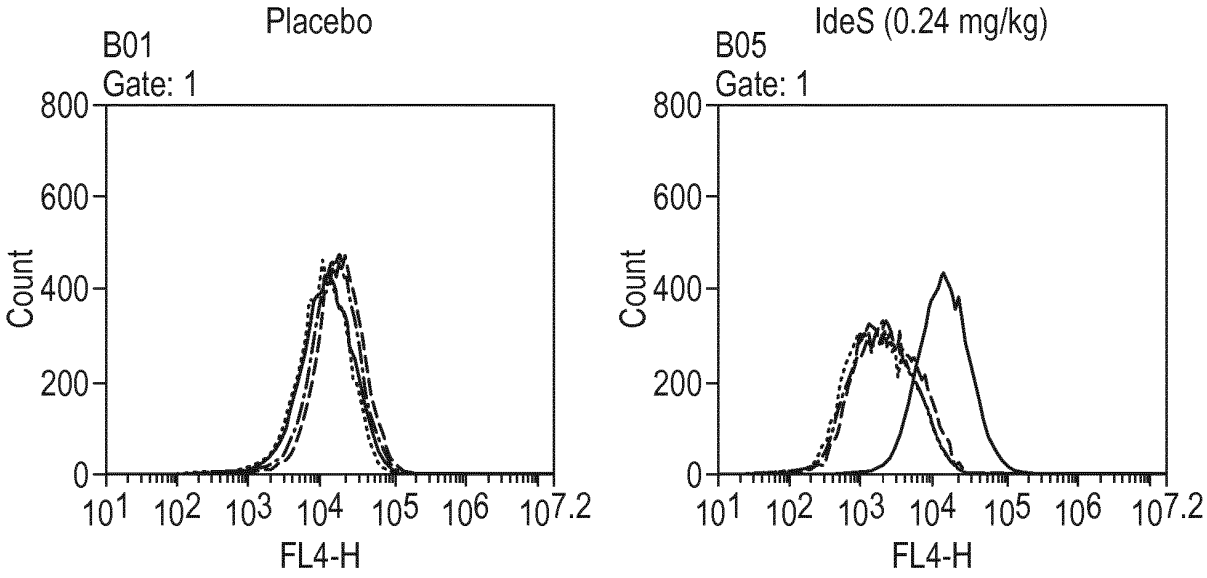

Placebo
B01
Gate: 1
800
600
400
200
0
Count
10^1 10^2 10^3 10^4 10^5 10^6 $10^{7.2}$
FL4-H
IdeS (0.24 mg/kg)
B05
Gate: 1
800
600
400
200
0
Count
10^1 10^2 10^3 10^4 10^5 10^6 $10^{7.2}$
FL4-H

Fig. 17

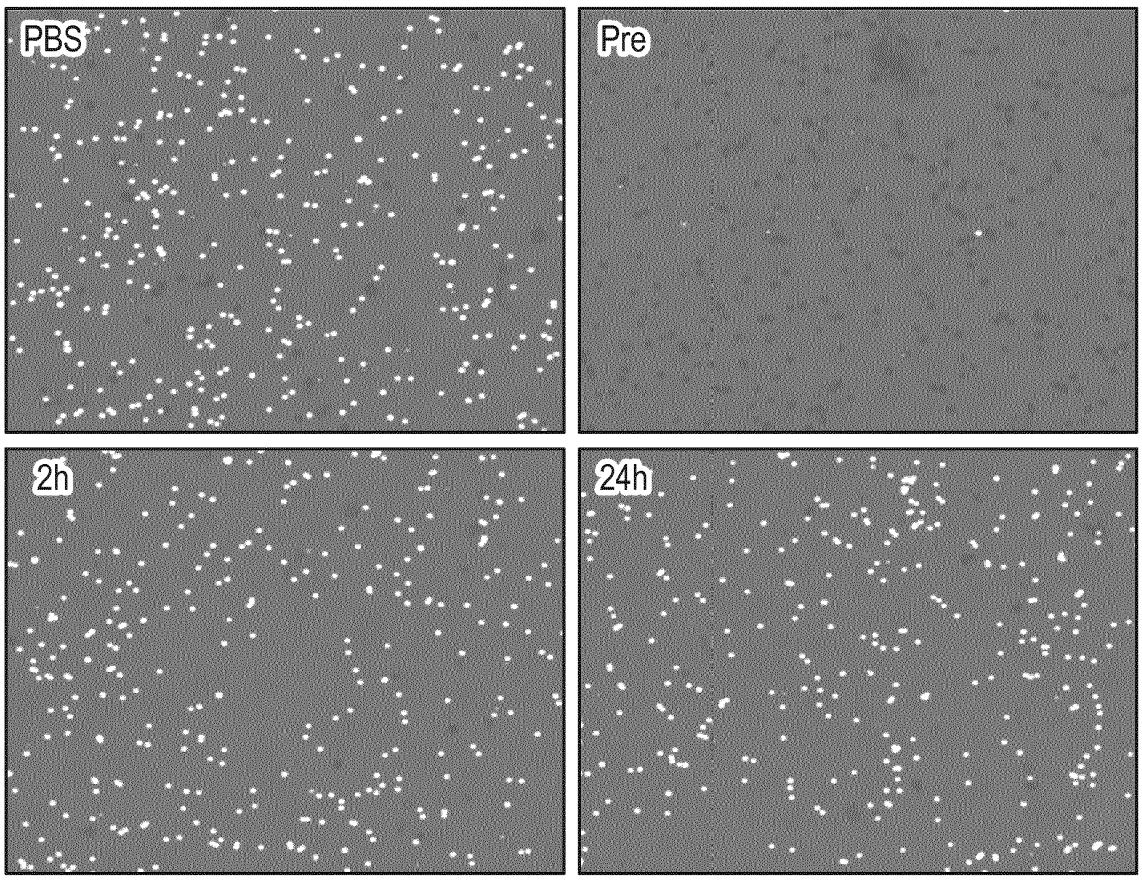

PBS
Pre
2h
24h

Fig. 18

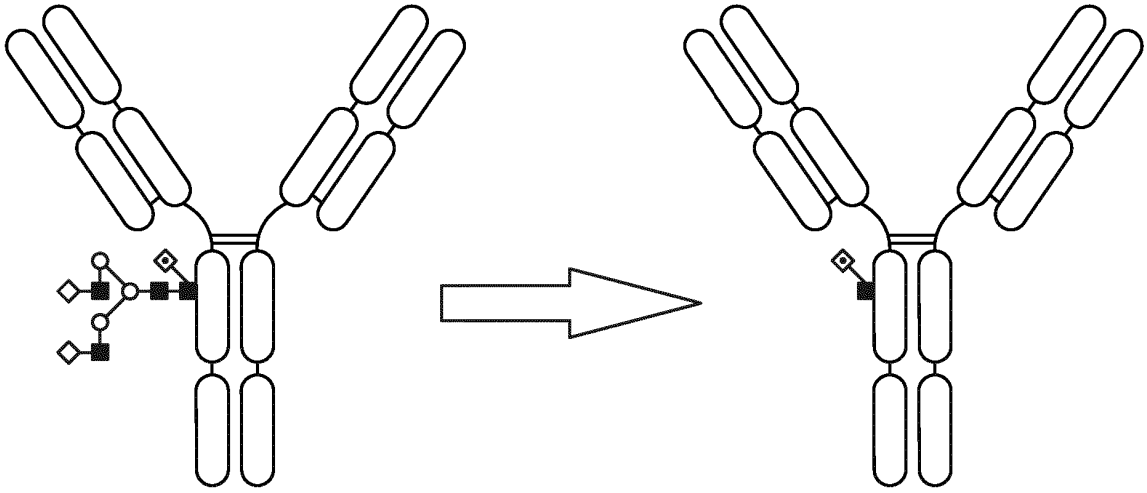


Fig. 19

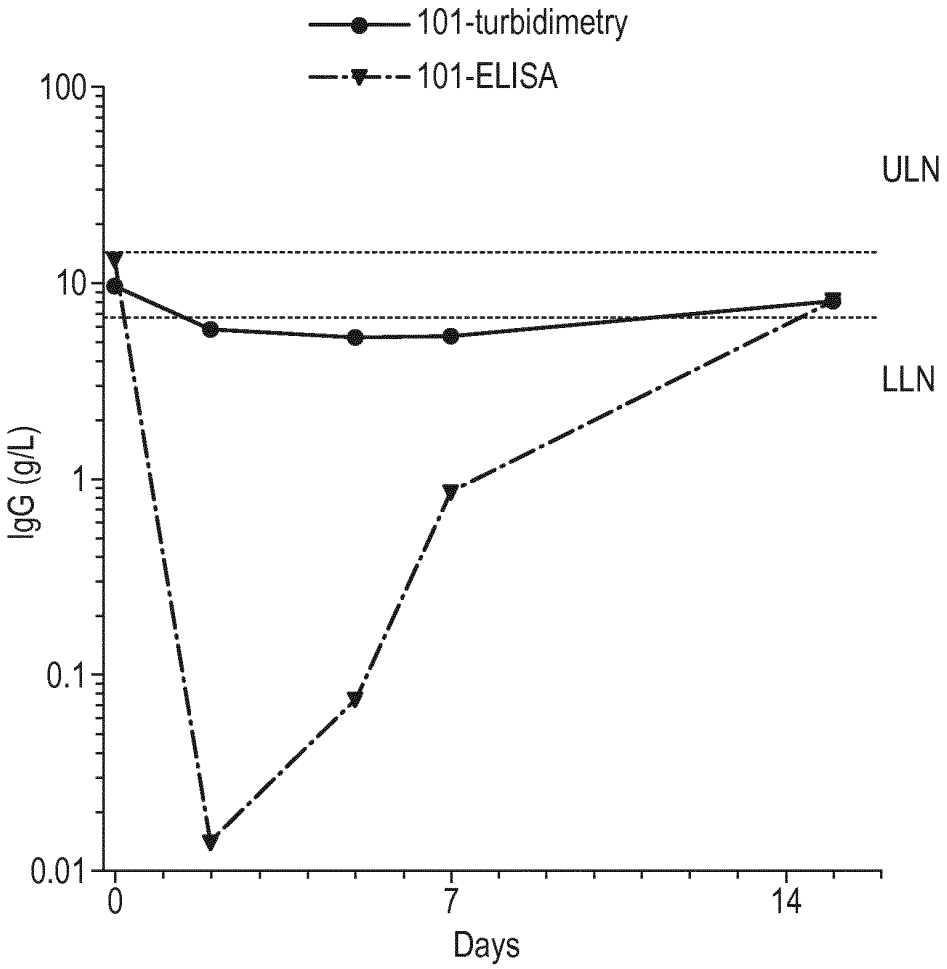

101-turbidimetry
101-ELISA
100
10
1
0.1
0.01
IgG (g/L)
ULN
LLN
0
7
14
Days

Fig. 20A

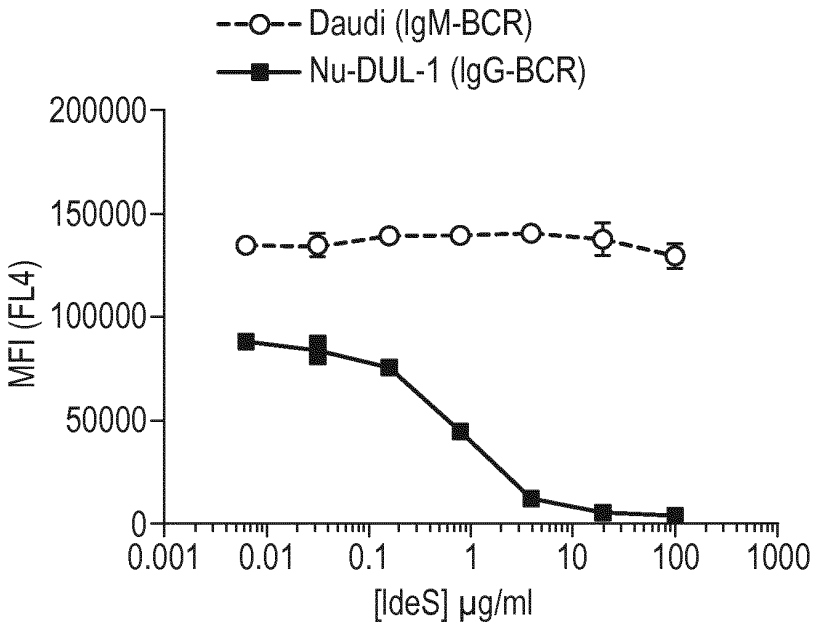


Fig. 20B

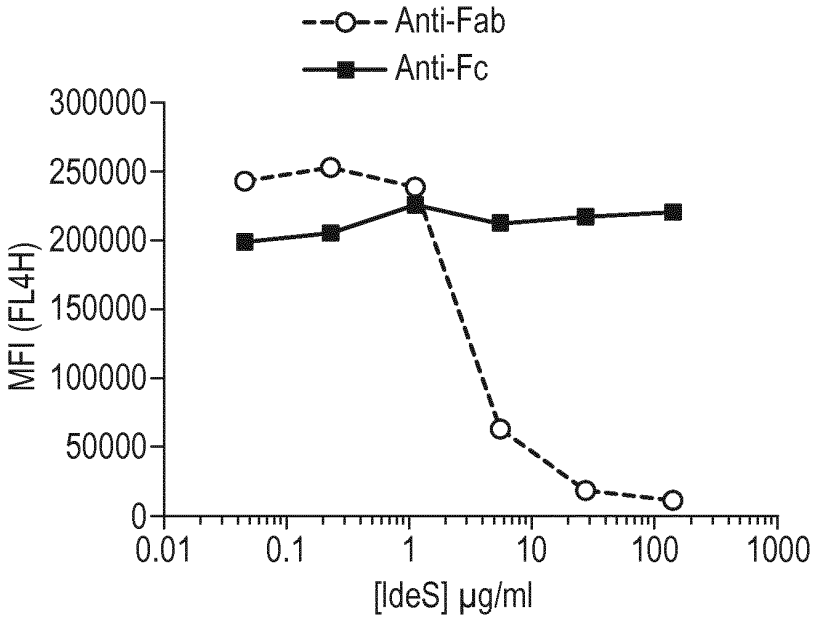


Fig. 21A

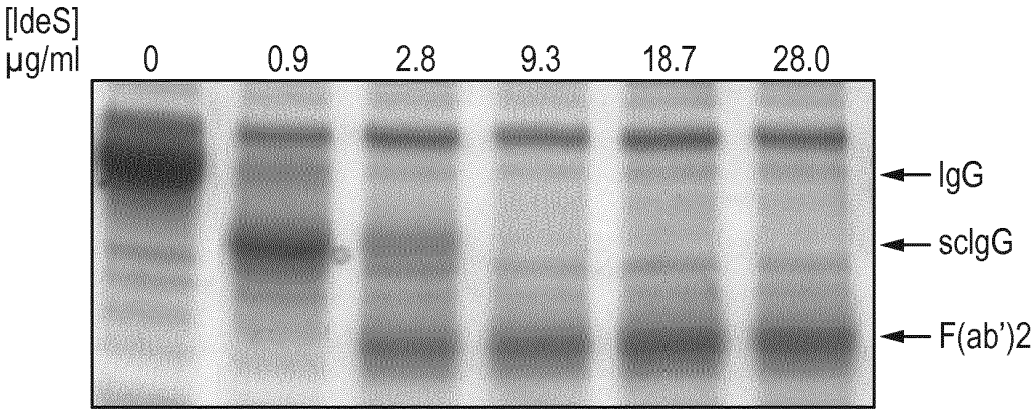


Fig. 21B

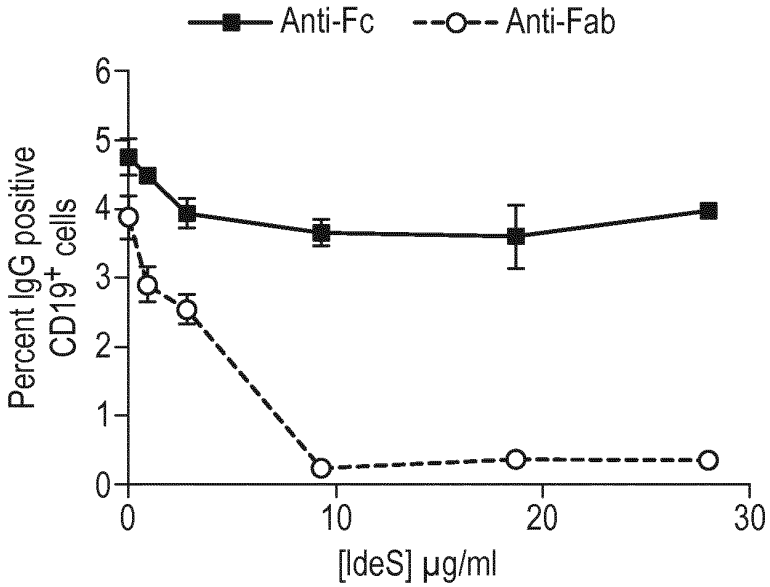


Fig. 22A

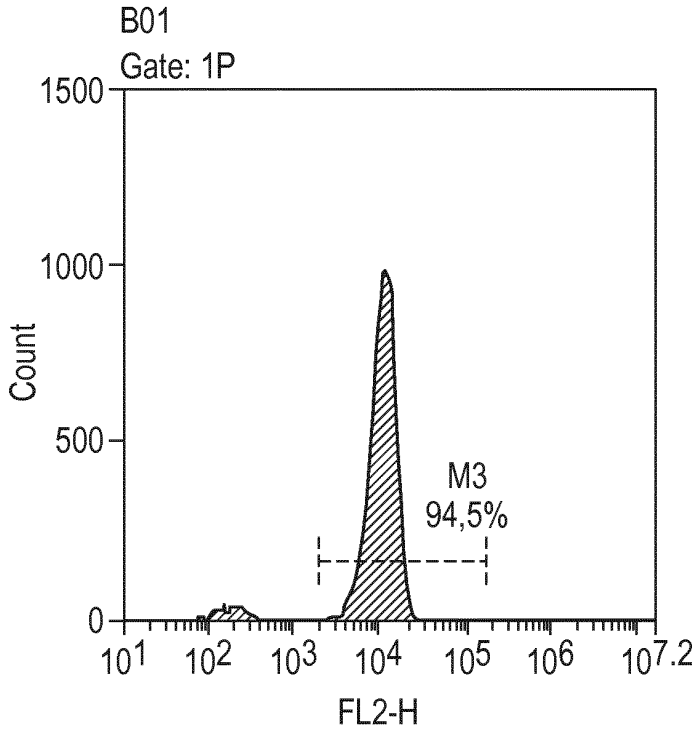


Fig. 22B

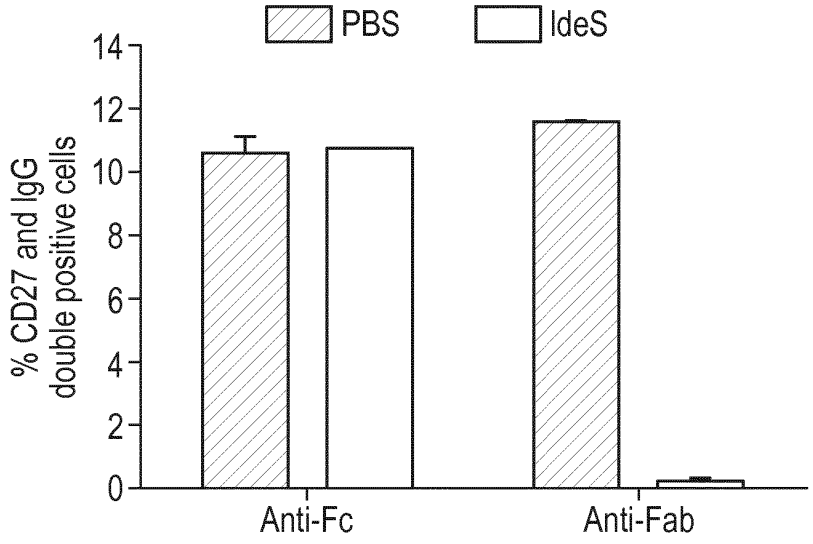


Fig. 23A

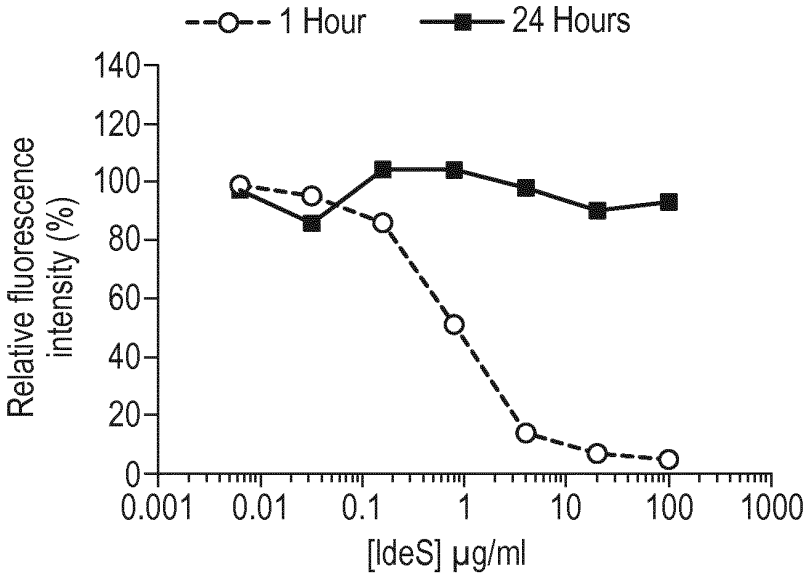


Fig. 23B

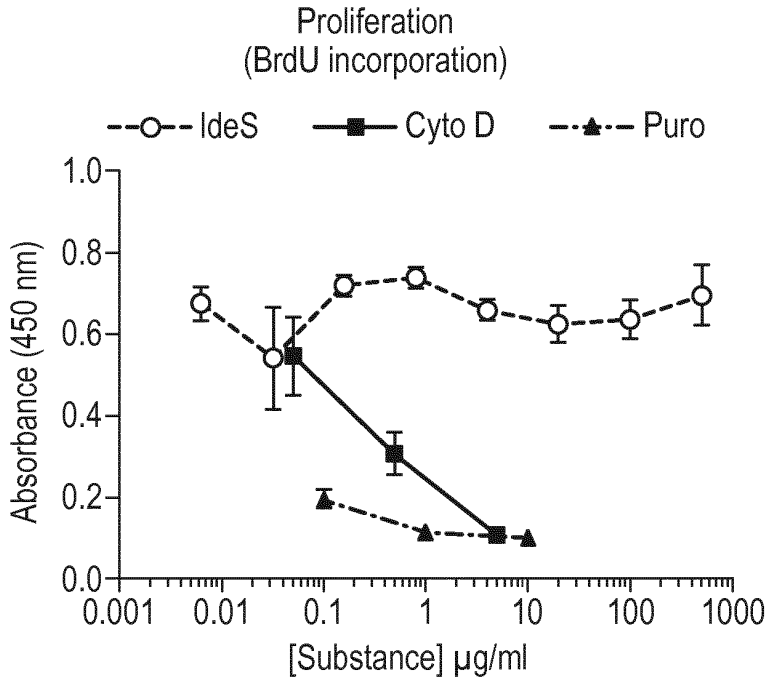


Fig. 23C

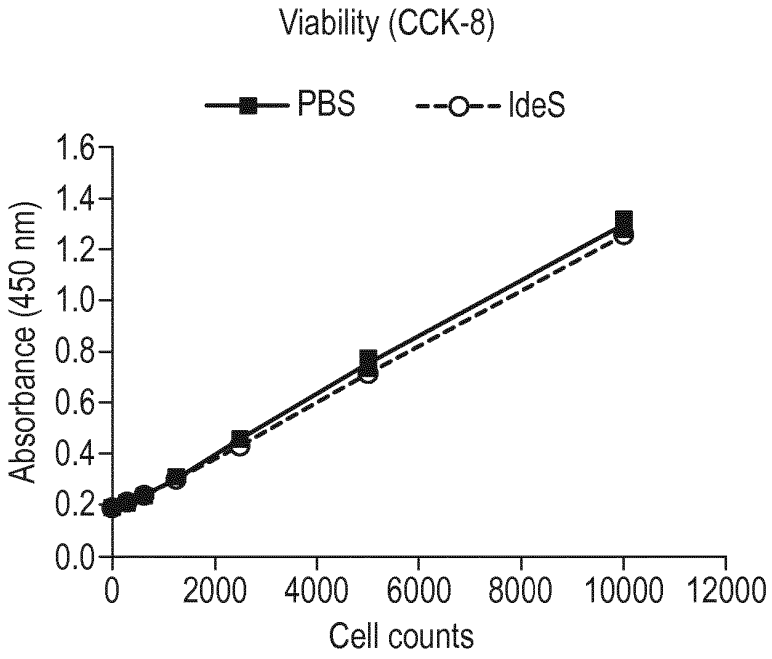

Viability (CCK-8)
PBS
IdeS
Absorbance (450 nm)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
2000
4000
6000
8000
10000
12000
Cell counts

Fig. 24A

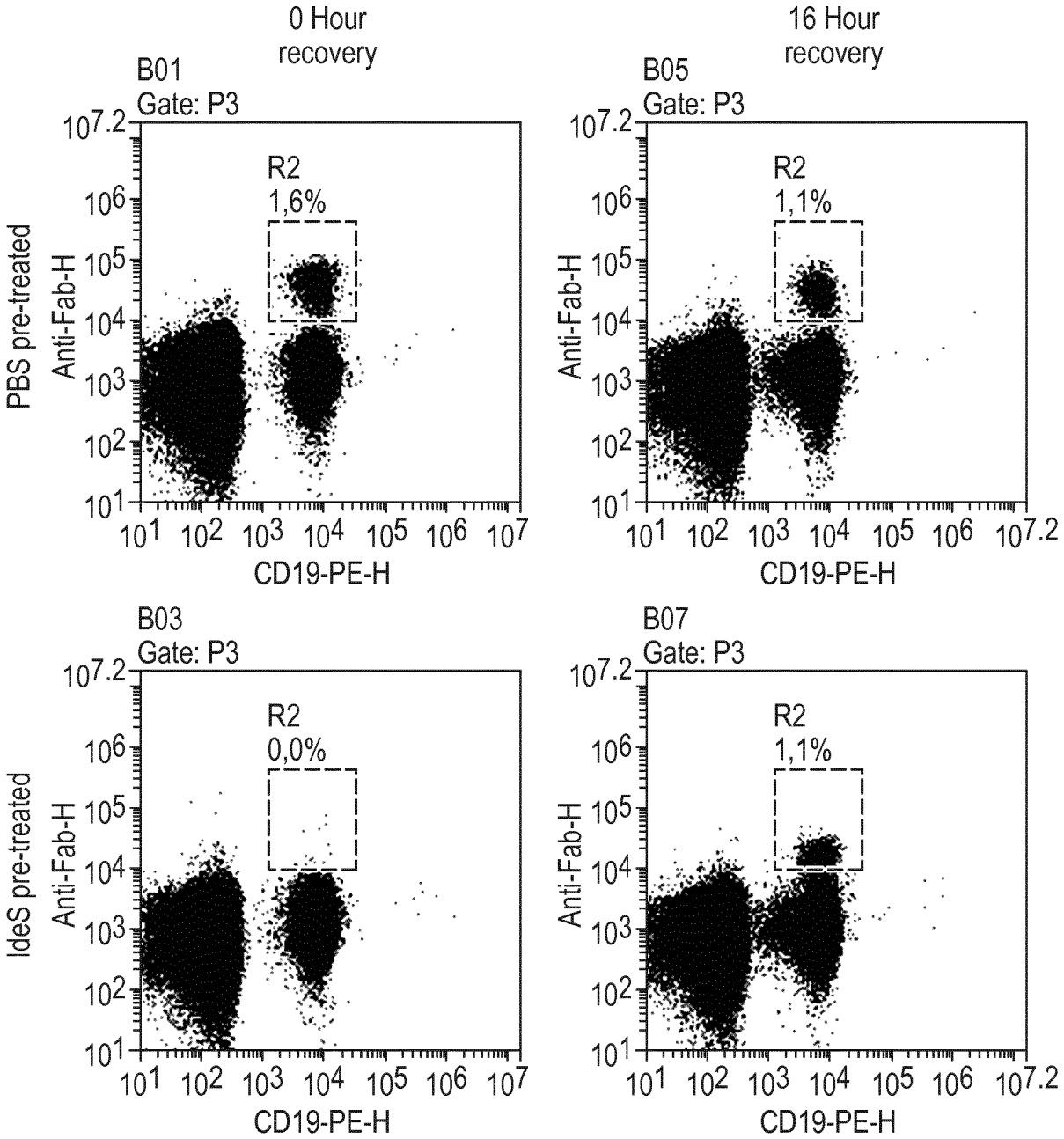

0 Hour recovery
16 Hour recovery
B01
Gate: P3
B05
Gate: P3
B03
Gate: P3
B07
Gate: P3
R2
1,6%
R2
1,1%
R2
0,0%
R2
1,1%
PBS pre-treated
IdeS pre-treated
Anti-Fab-H
CD19-PE-H
10^1 10^2 10^3 10^4 10^5 10^6 10^7 $10^{7.2}$

Fig. 24B

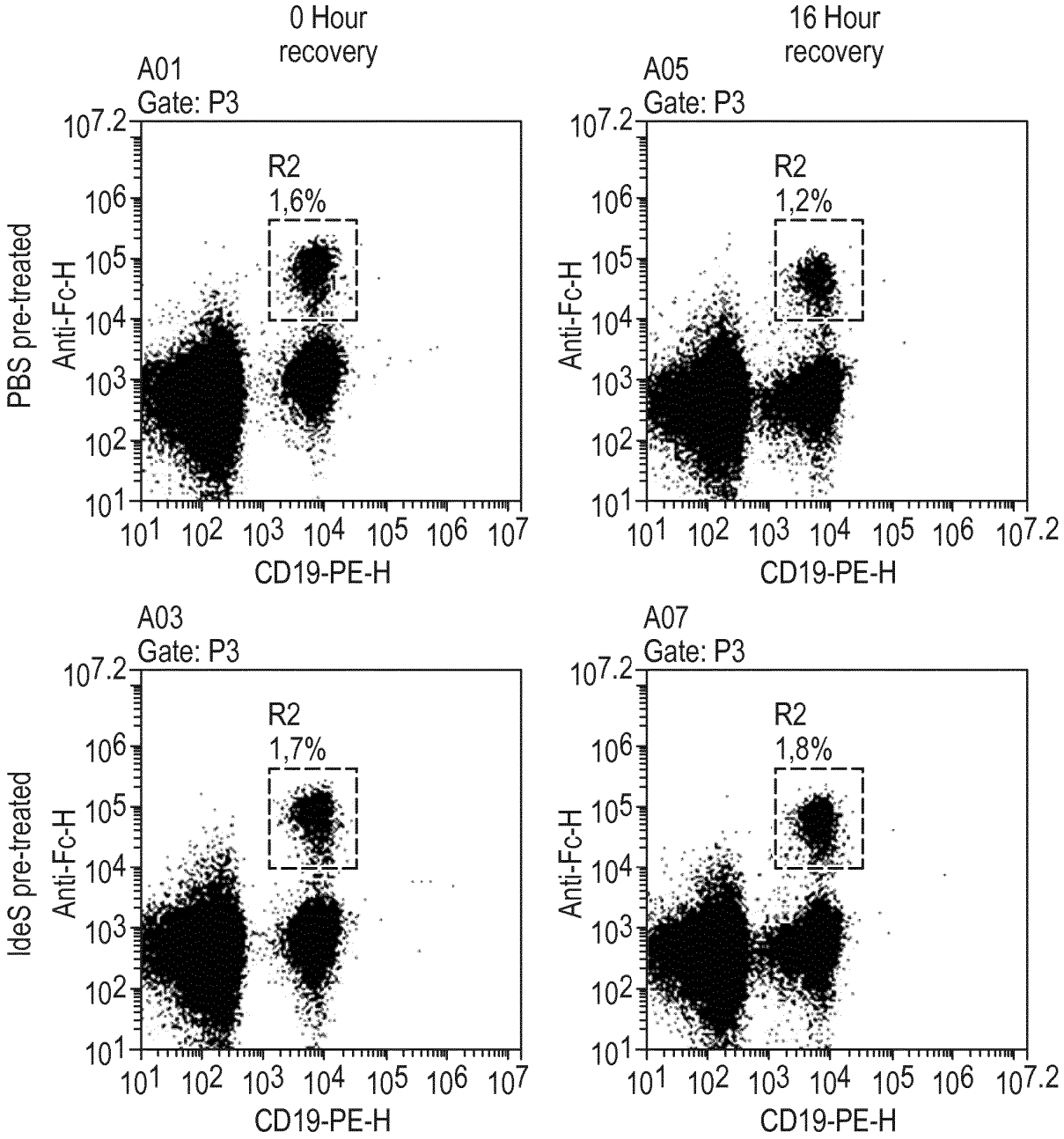

0 Hour recovery
16 Hour recovery
PBS pre-treated
IdeS pre-treated
A01
Gate: P3
R2
1,6%
A05
Gate: P3
R2
1,2%
A03
Gate: P3
R2
1,7%
A07
Gate: P3
R2
1,8%
Anti-Fc-H
CD19-PE-H
10^1 10^2 10^3 10^4 10^5 10^6 10^7 $10^{7.2}$

Fig. 25A

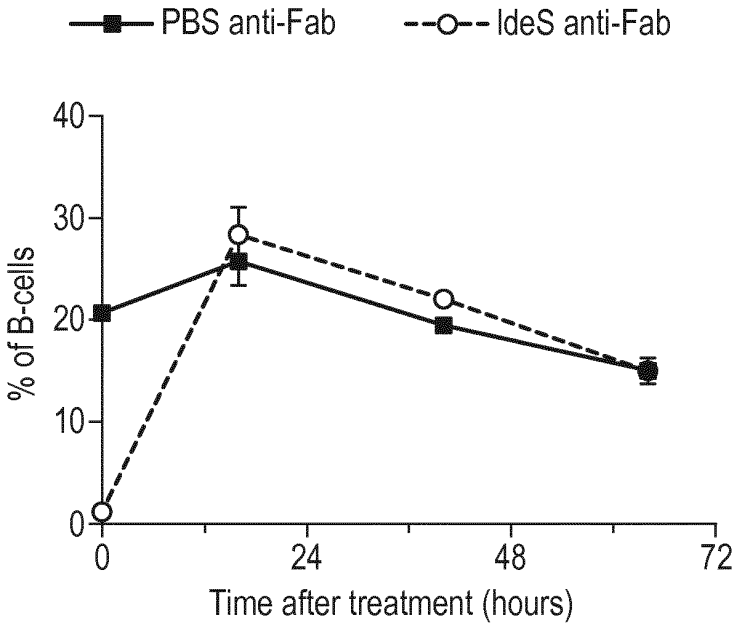


Fig. 25B

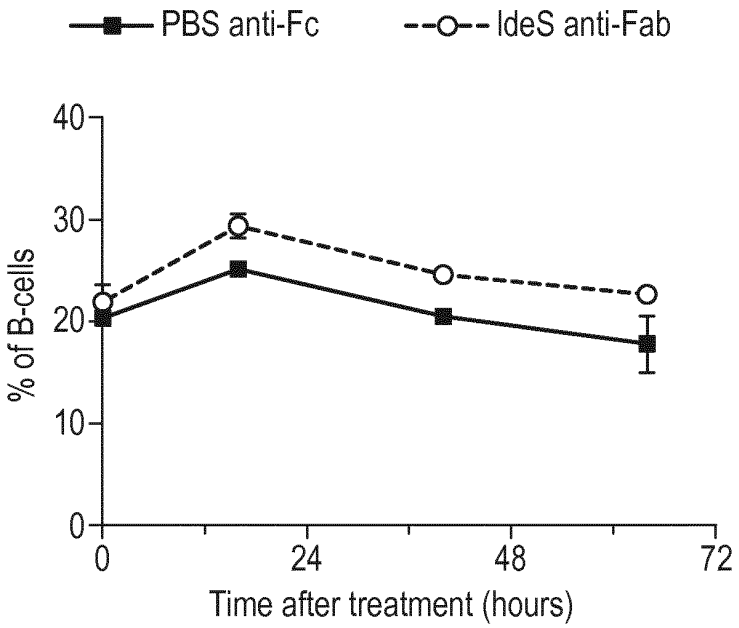


Fig. 26

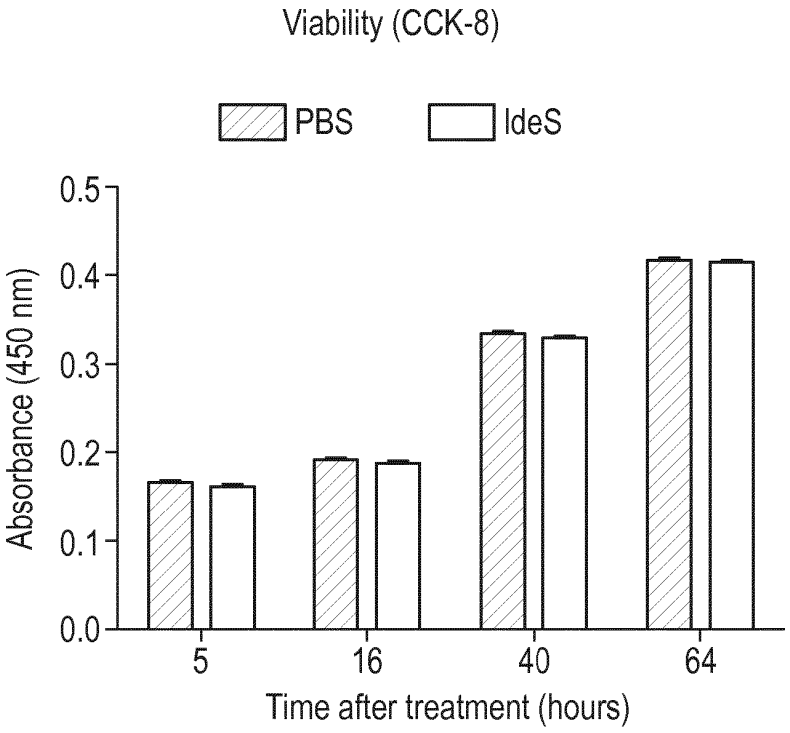

Viability (CCK-8)
PBS
IdeS
Absorbance (450 nm)
0.5
0.4
0.3
0.2
0.1
0.0
5
16
40
64
Time after treatment (hours)

Fig. 27A

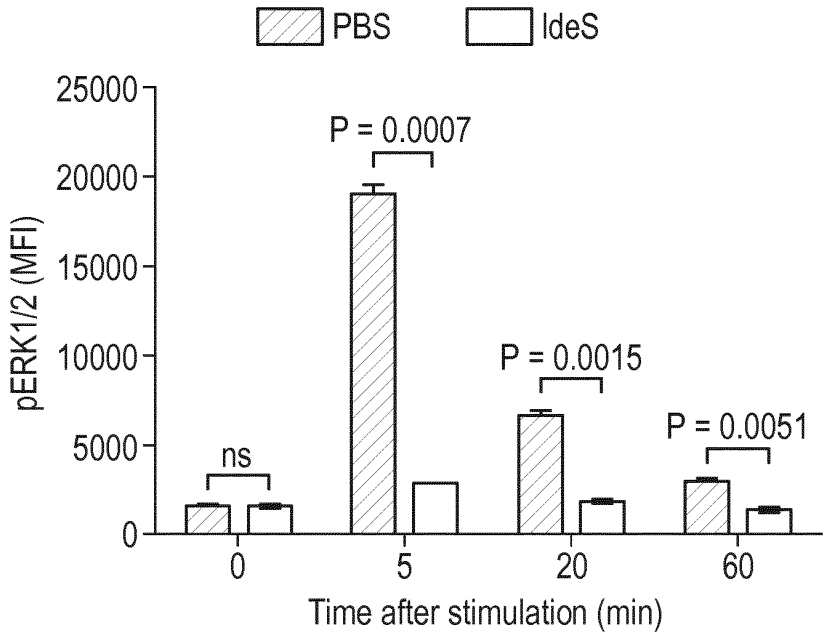


Fig. 27B

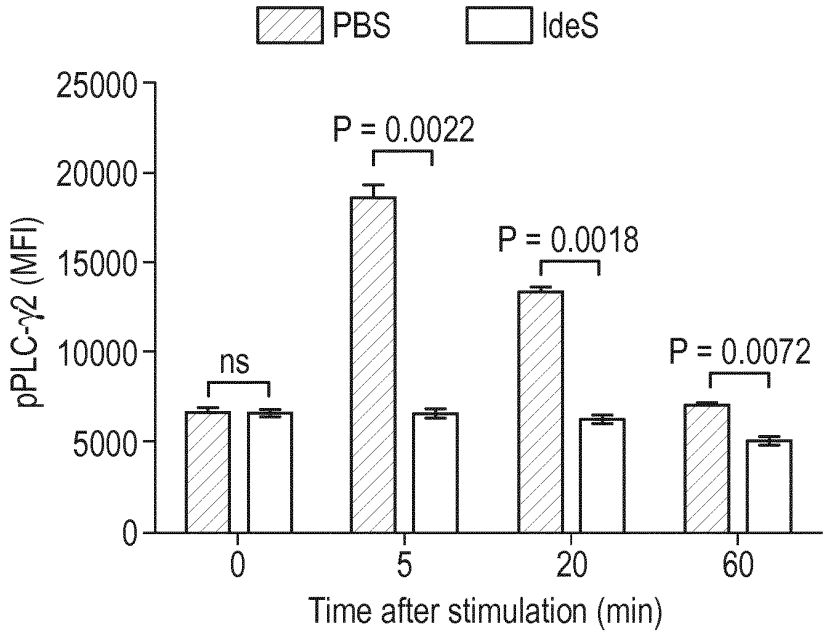


Fig. 28A

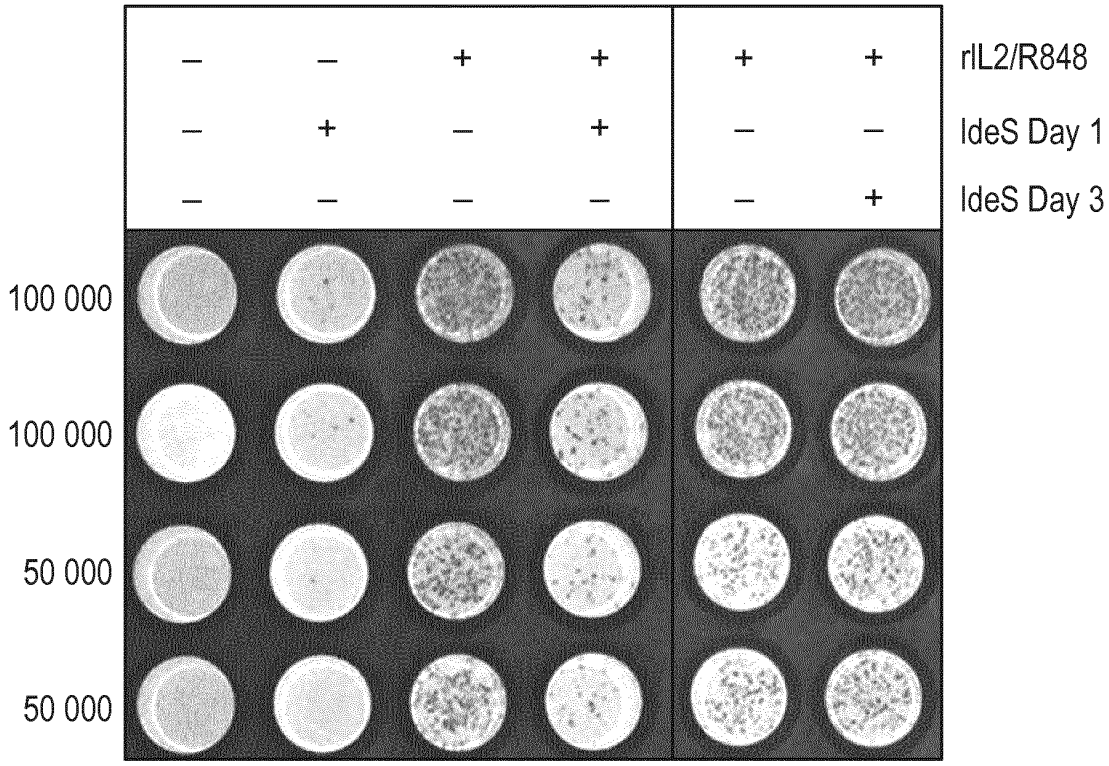


Fig. 28B

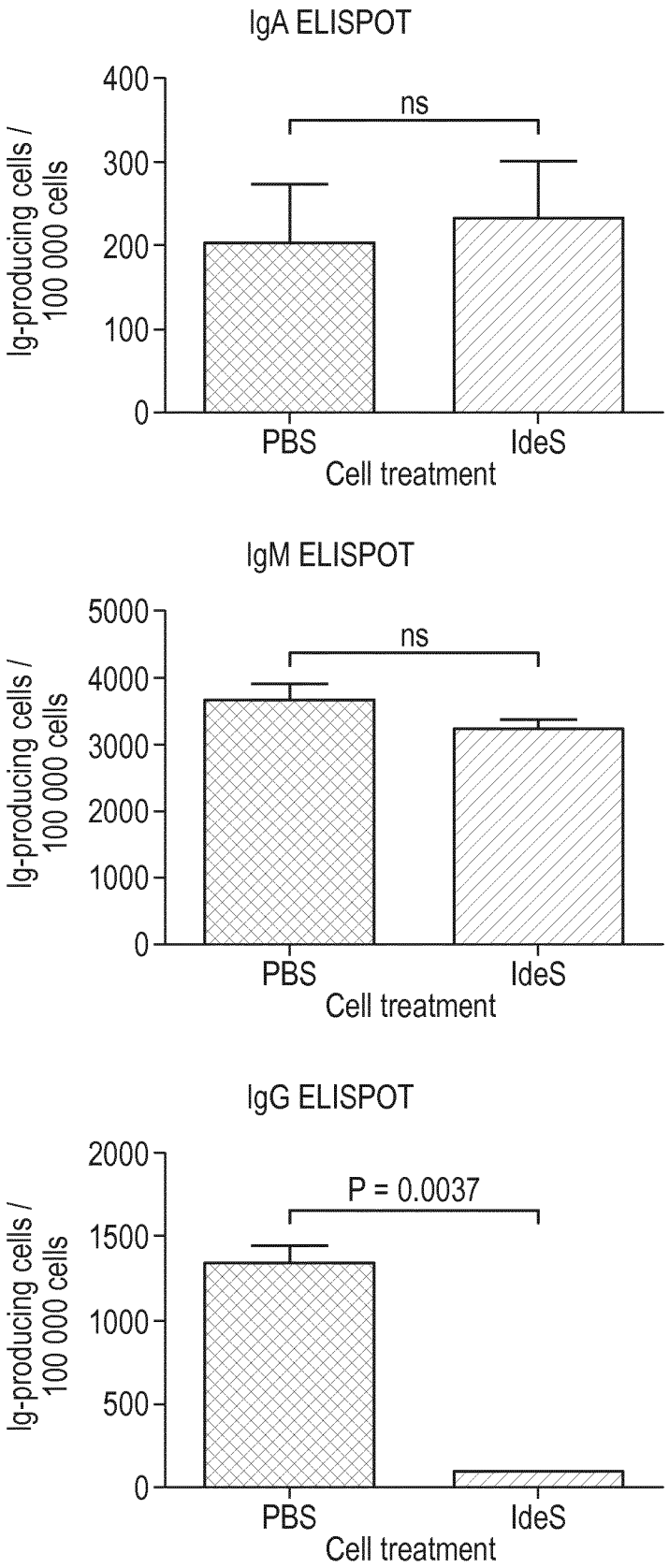

IgA ELISPOT
400
300
200
100
0
ns
Ig-producing cells / 100 000 cells
PBS
IdeS
Cell treatment
IgM ELISPOT
5000
4000
3000
2000
1000
0
ns
Ig-producing cells / 100 000 cells
PBS
IdeS
Cell treatment
IgG ELISPOT
2000
1500
1000
500
0
P = 0.0037
Ig-producing cells / 100 000 cells
PBS
IdeS
Cell treatment

Fig. 28C

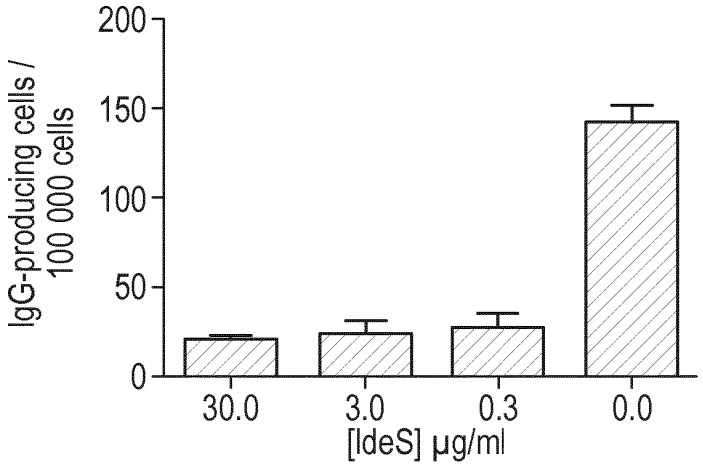


Fig. 28D

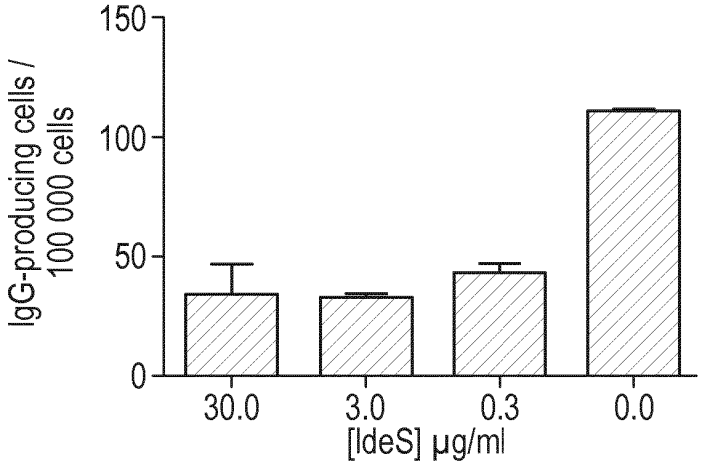


Fig. 29

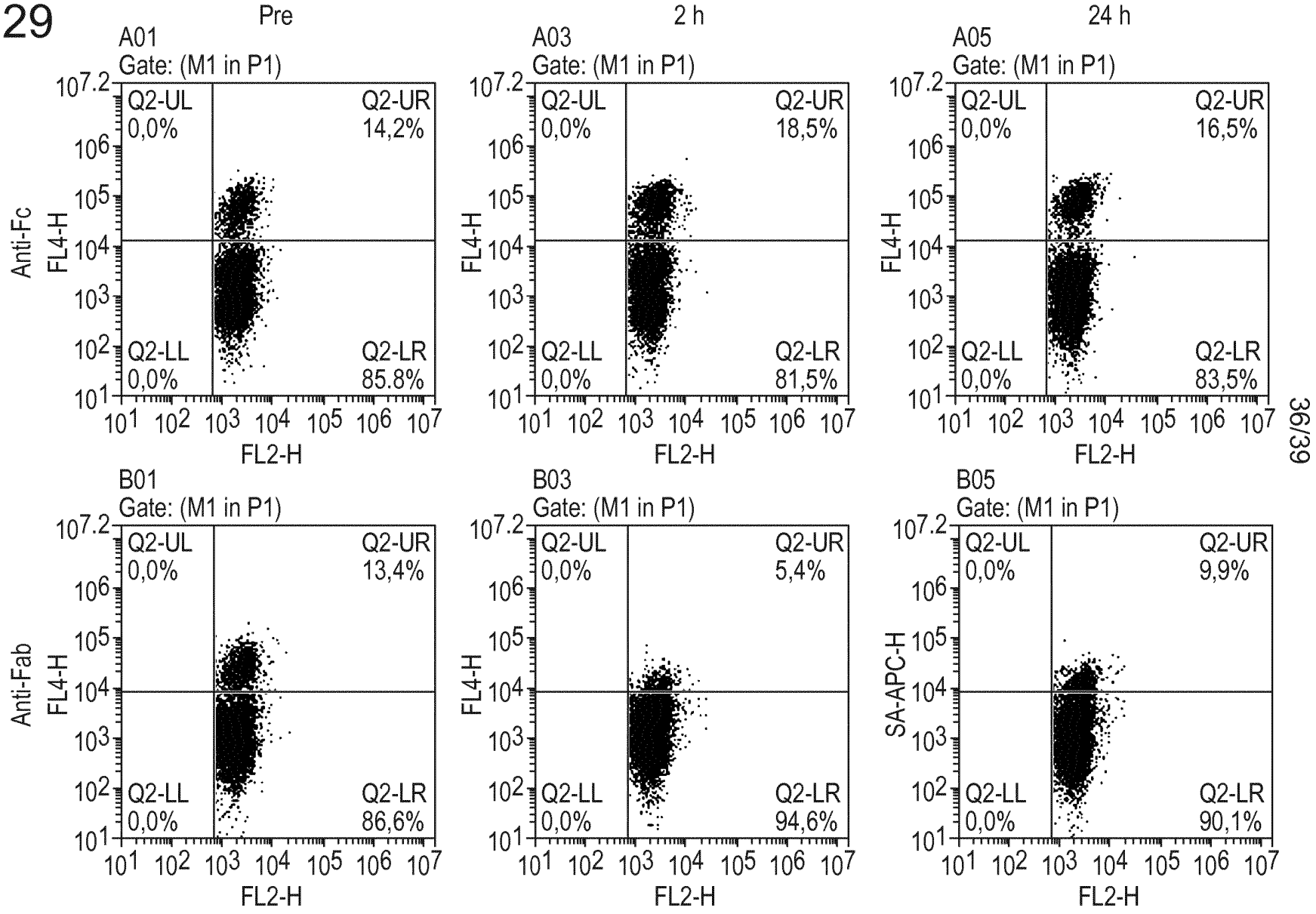

Pre
2 h
24 h
A01
Gate: (M1 in P1)
A03
Gate: (M1 in P1)
A05
Gate: (M1 in P1)
Q2-UL
0,0%
Q2-UR
14,2%
Q2-LL
0,0%
Q2-LR
85.8%
Q2-UL
0,0%
Q2-UR
18,5%
Q2-LL
0,0%
Q2-LR
81,5%
Q2-UL
0,0%
Q2-UR
16,5%
Q2-LL
0,0%
Q2-LR
83,5%
Anti-Fc
FL4-H
FL2-H
B01
Gate: (M1 in P1)
B03
Gate: (M1 in P1)
B05
Gate: (M1 in P1)
Q2-UL
0,0%
Q2-UR
13,4%
Q2-LL
0,0%
Q2-LR
86,6%
Q2-UL
0,0%
Q2-UR
5,4%
Q2-LL
0,0%
Q2-LR
94,6%
Q2-UL
0,0%
Q2-UR
9,9%
Q2-LL
0,0%
Q2-LR
90,1%
Anti-Fab
SA-APC-H

Fig. 29 (Cont.)

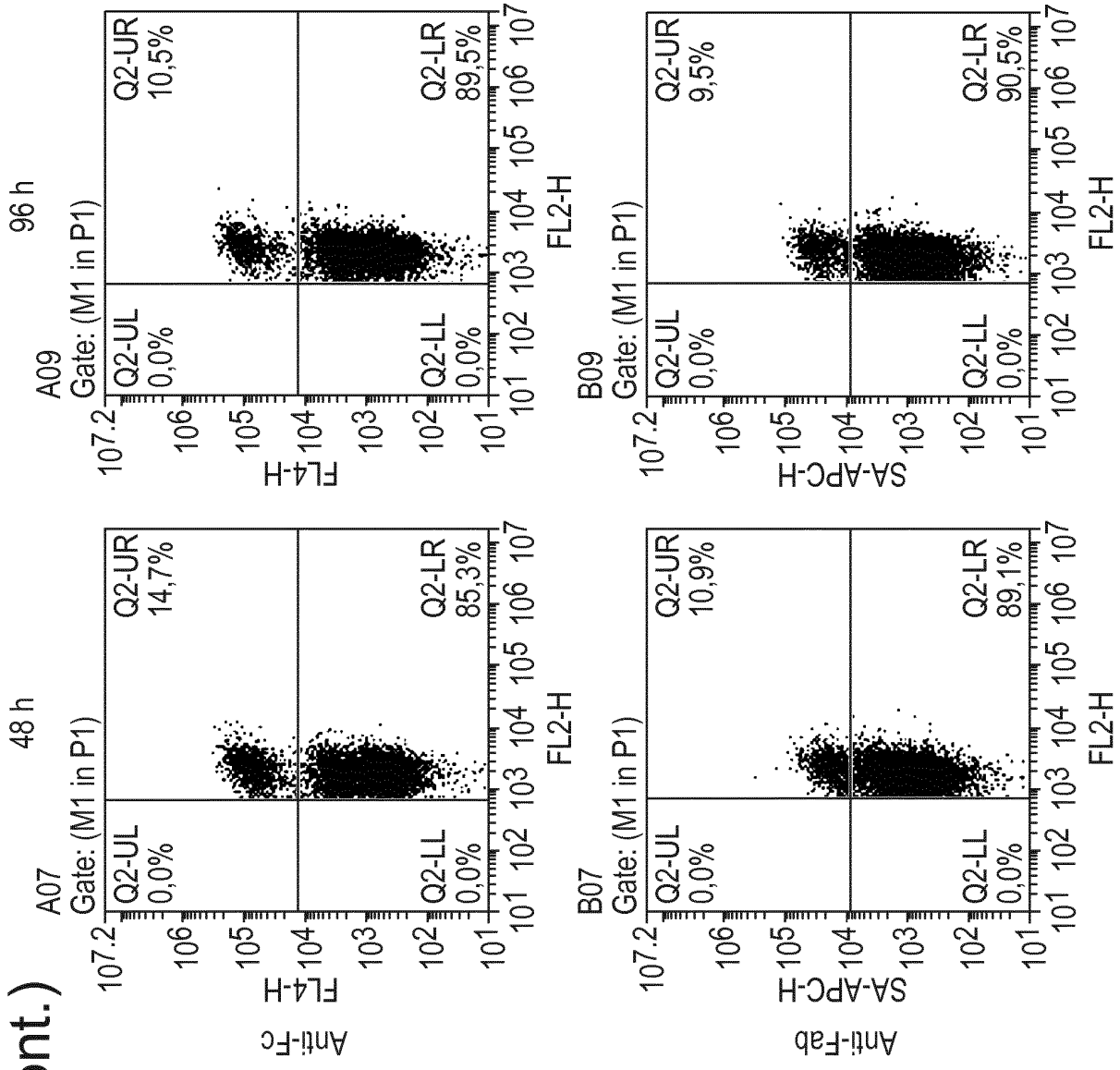

48 h
96 h
A07
A09
B07
B09
Gate: (M1 in P1)
Q2-UL 0,0%
Q2-UR 14,7%
Q2-LL 0,0%
Q2-LR 85,3%
Q2-UR 10,5%
Q2-LR 89,5%
Q2-UR 10,9%
Q2-LR 89,1%
Q2-UR 9,5%
Q2-LR 90,5%
FL4-H
SA-APC-H
FL2-H
Anti-Fc
Anti-Fab

Fig. 30

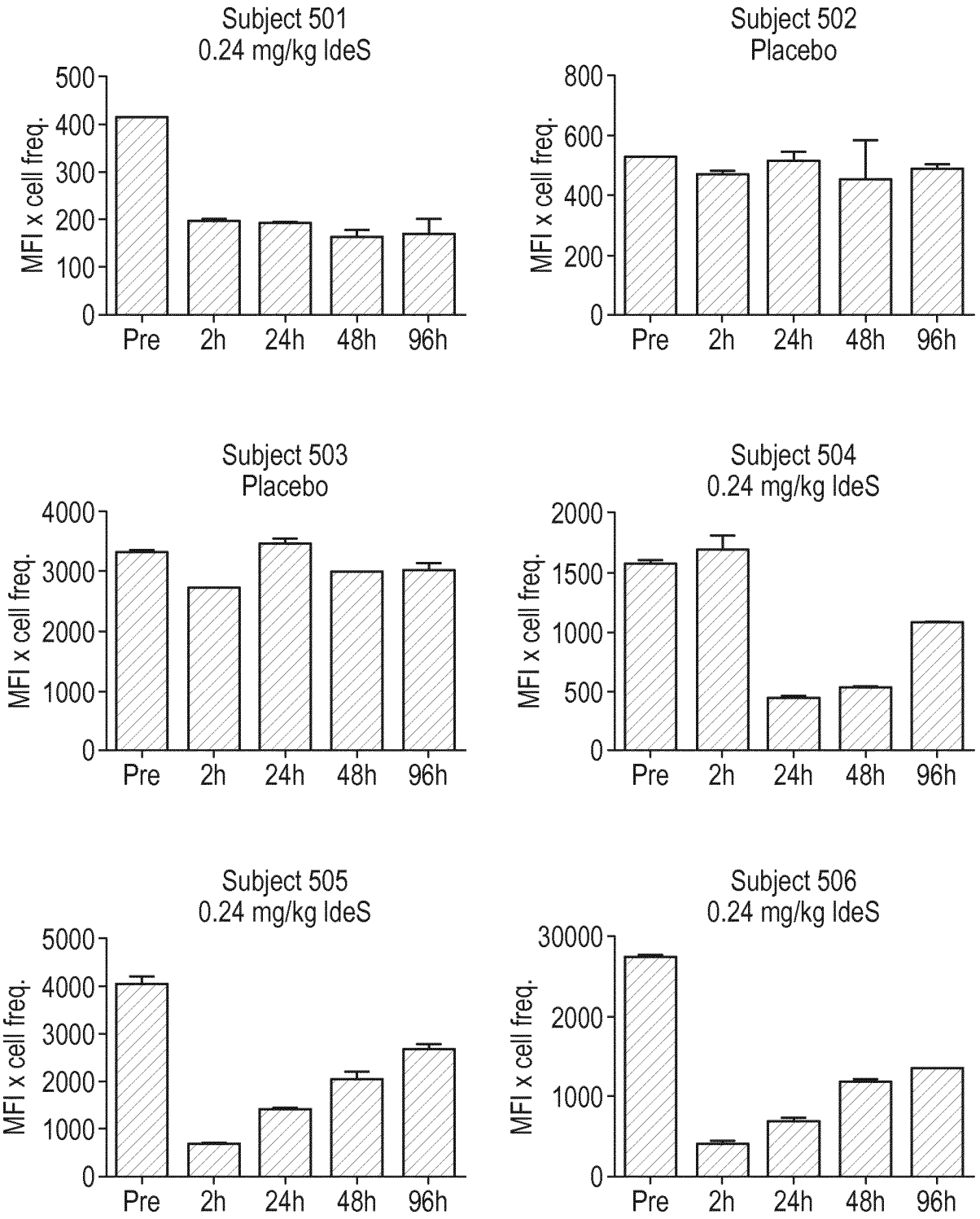
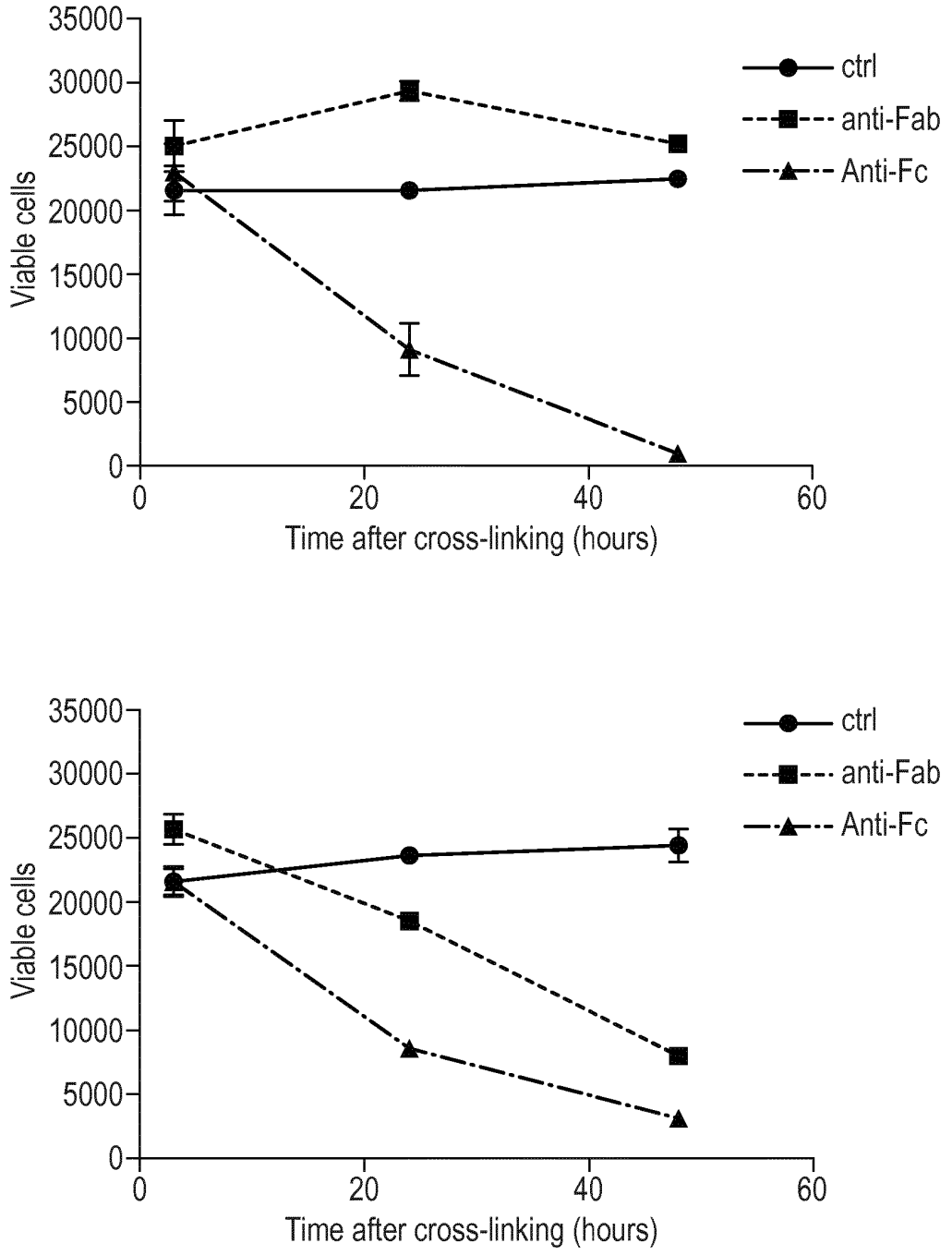

Subject 501
0.24 mg/kg IdeS
MFI x cell freq.
500
400
300
200
100
0
Pre
2h
24h
48h
96h
Subject 502
Placebo
MFI x cell freq.
800
600
400
200
0
Pre
2h
24h
48h
96h
Subject 503
Placebo
MFI x cell freq.
4000
3000
2000
1000
0
Pre
2h
24h
48h
96h
Subject 504
0.24 mg/kg IdeS
MFI x cell freq.
2000
1500
1000
500
0
Pre
2h
24h
48h
96h
Subject 505
0.24 mg/kg IdeS
MFI x cell freq.
5000
4000
3000
2000
1000
0
Pre
2h
24h
48h
96h
Subject 506
0.24 mg/kg IdeS
MFI x cell freq.
30000
2000
1000
0
Pre
2h
24h
48h
96h

Fig. 31


35000
30000
25000
20000
15000
10000
5000
0
Viable cells
0
20
40
60
Time after cross-linking (hours)
ctrl
anti-Fab
Anti-Fc
35000
30000
25000
20000
15000
10000
5000
0
Viable cells
0
20
40
60
Time after cross-linking (hours)
ctrl
anti-Fab
Anti-Fc