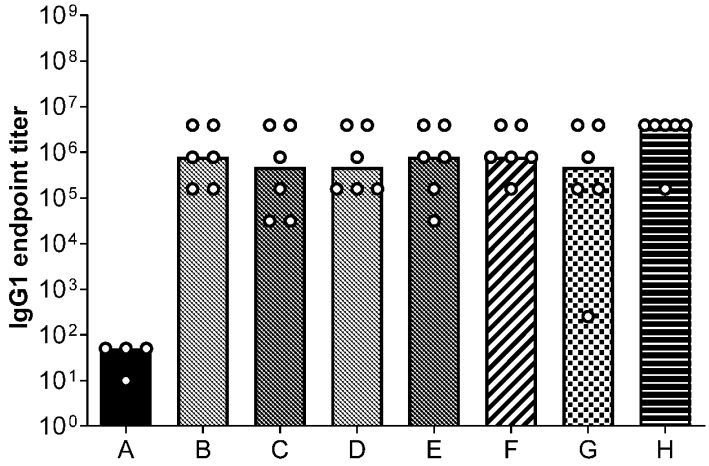
A


IgG1 endpoint titer
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D
E
F
G
H

B

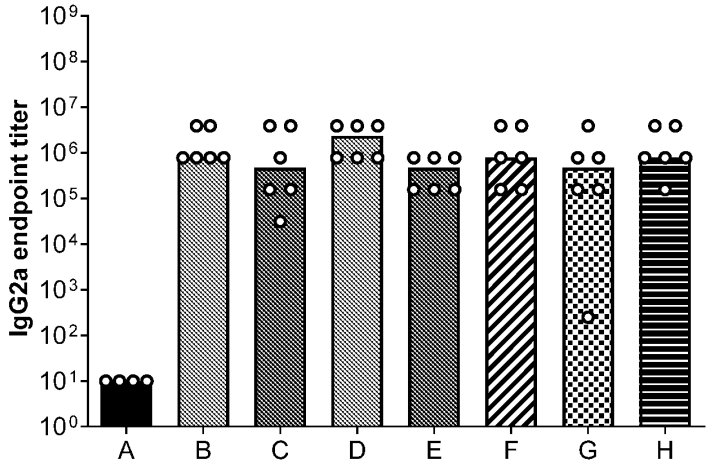
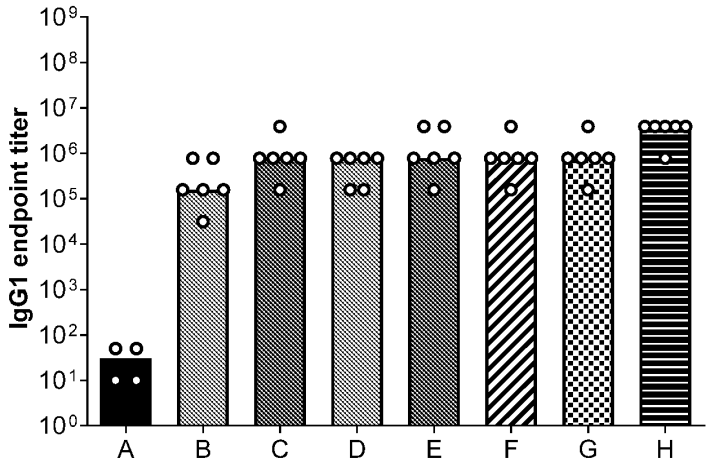

IgG2a endpoint titer
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D
E
F
G
H

FIG. 1

C



D

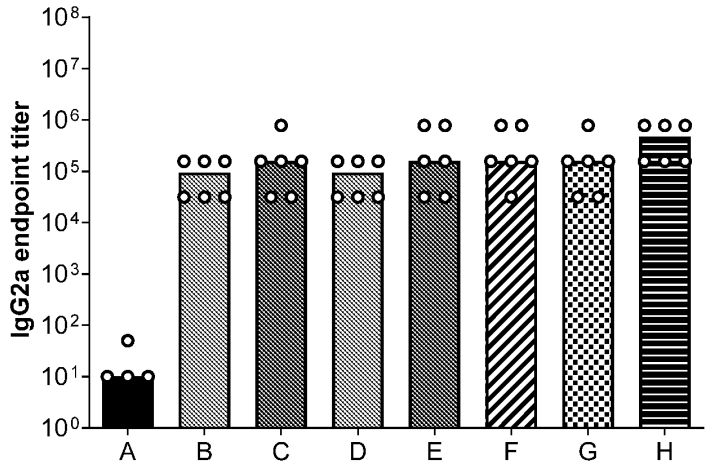
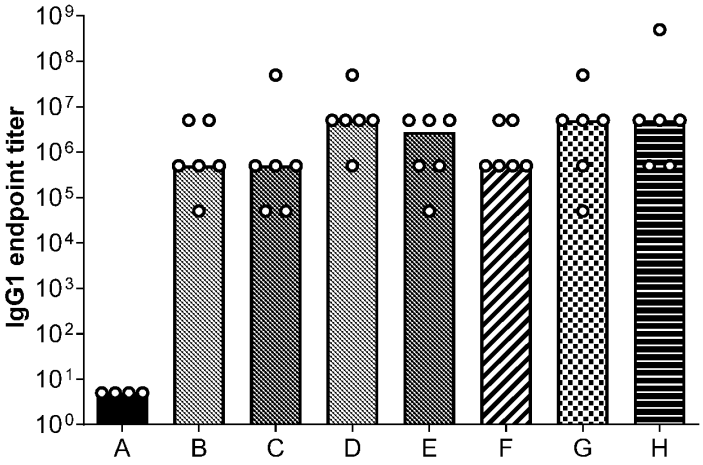


FIG. 1 continued

E



F

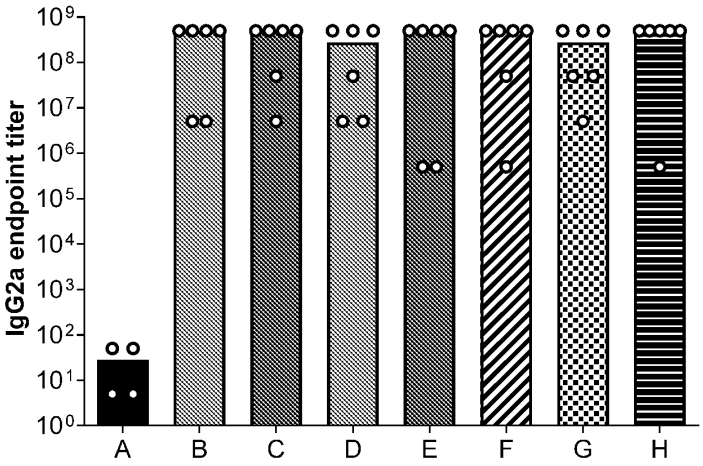
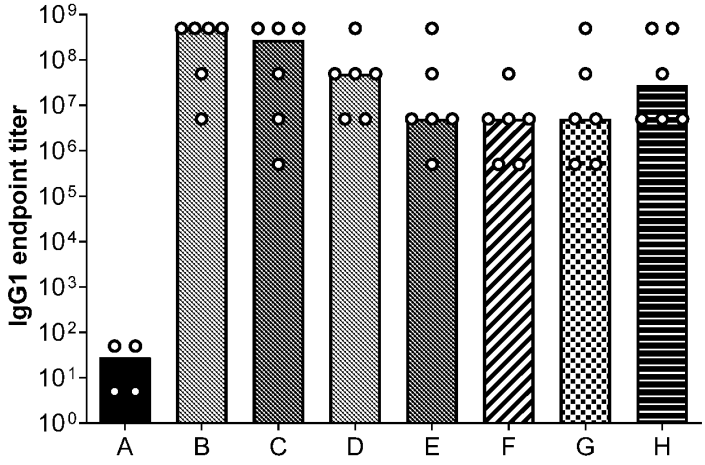


FIG. 1 continued

G



H

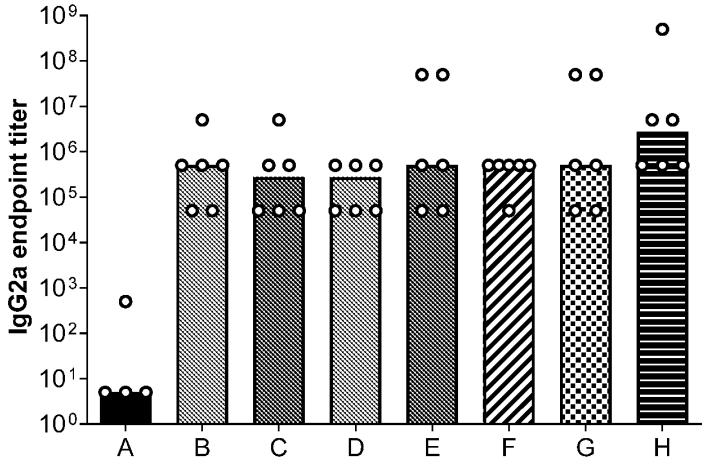
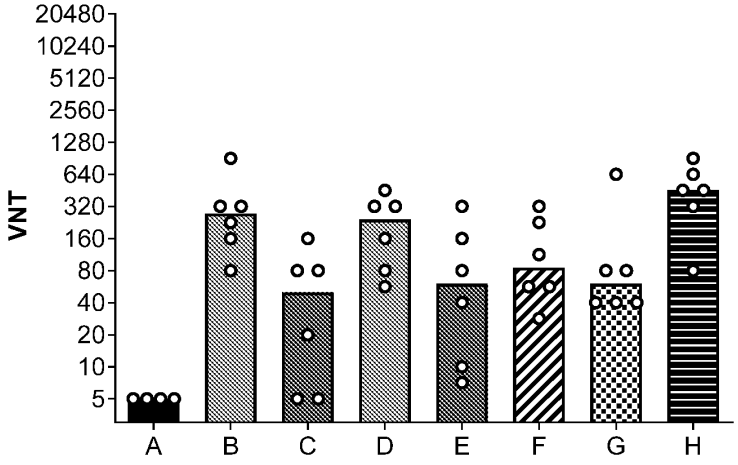


FIG. 1 continued

A


VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

B

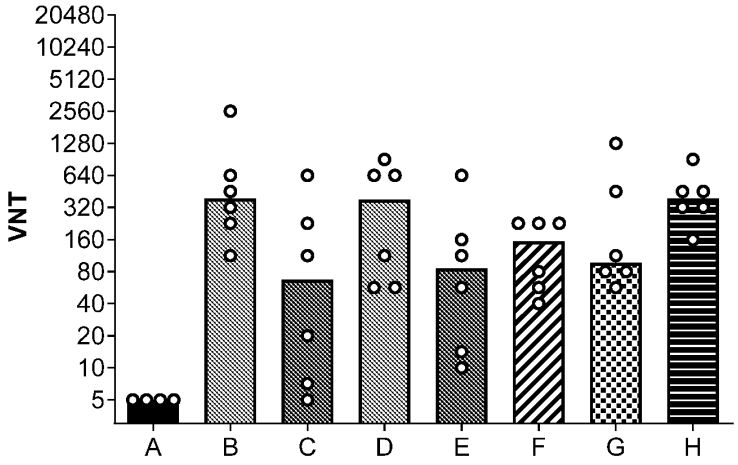

VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

FIG. 2

C

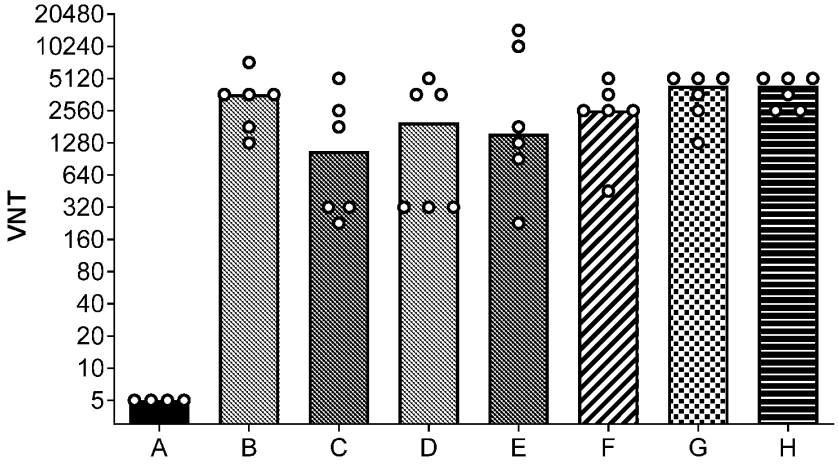
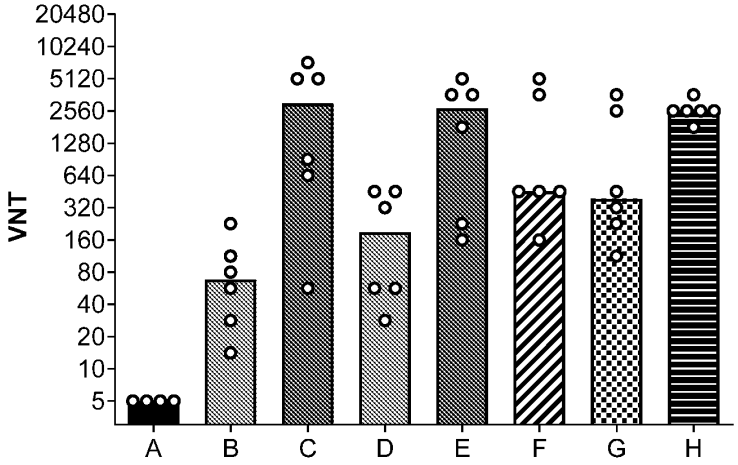


FIG. 2 continued

A


VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

B

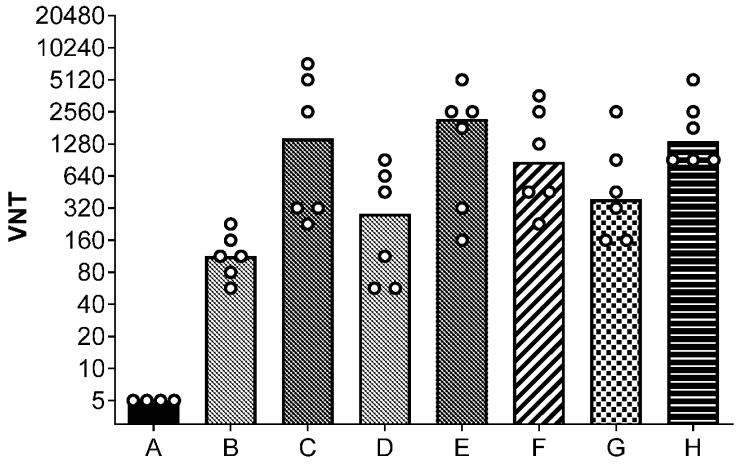

VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

FIG. 3

C

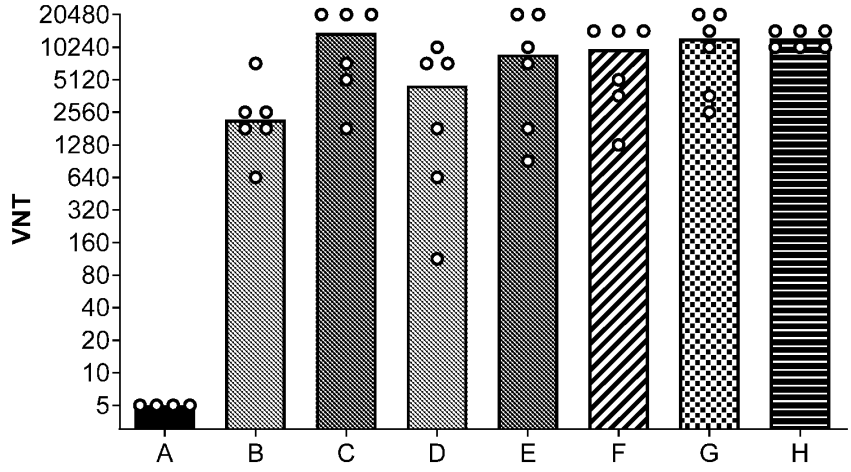
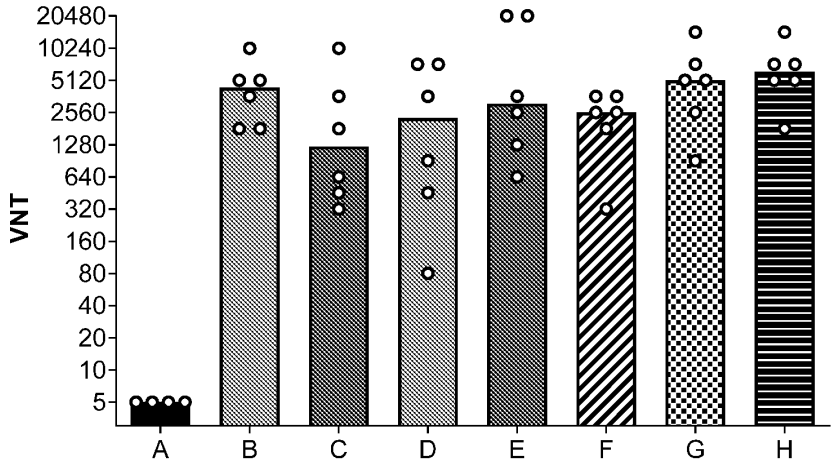


FIG. 3 continued

A


VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

B

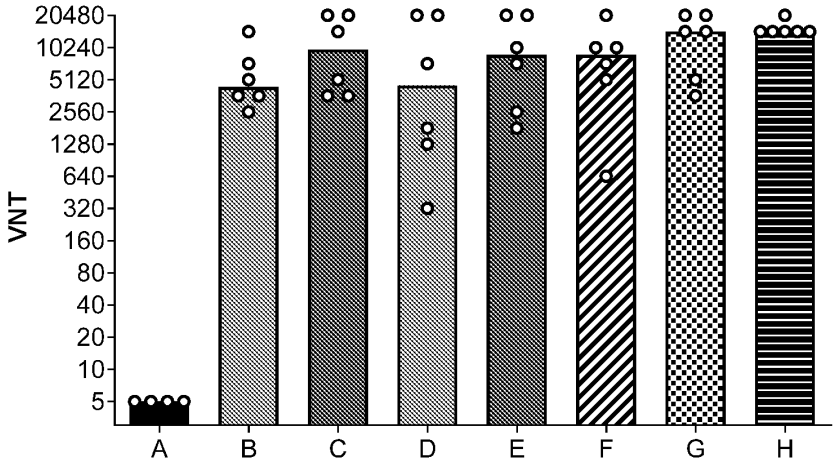
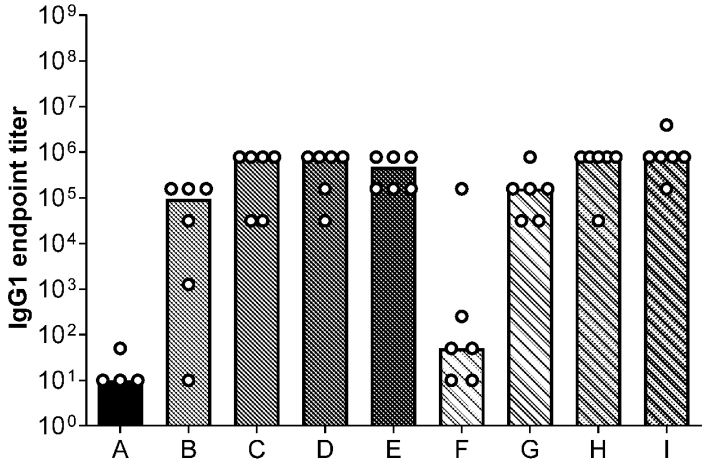

VNT
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H

FIG. 4

A


IgG1 endpoint titer
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A B C D E F G H I

B

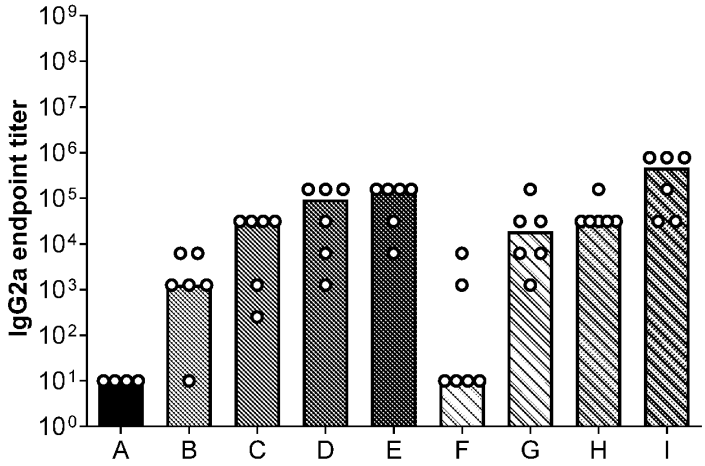
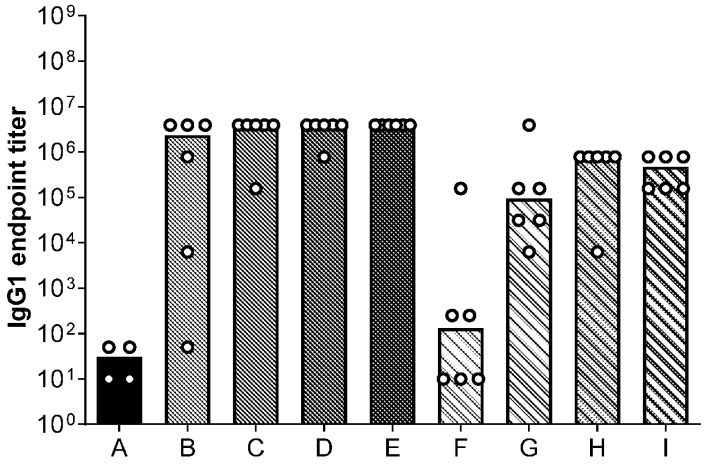

IgG2a endpoint titer
10^9
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A B C D E F G H I

FIG. 5

C



D

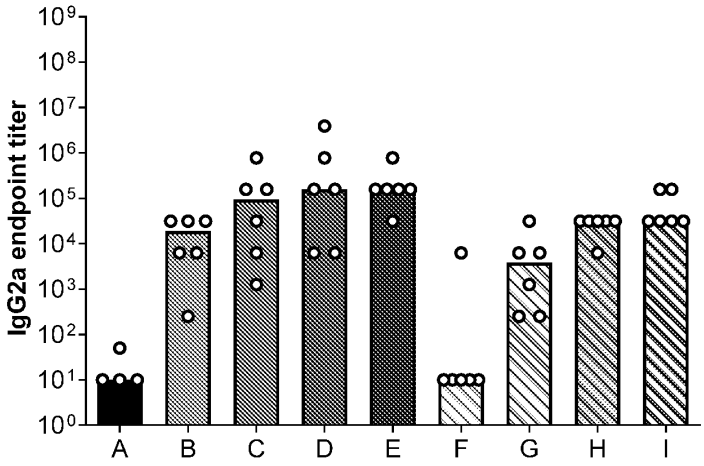
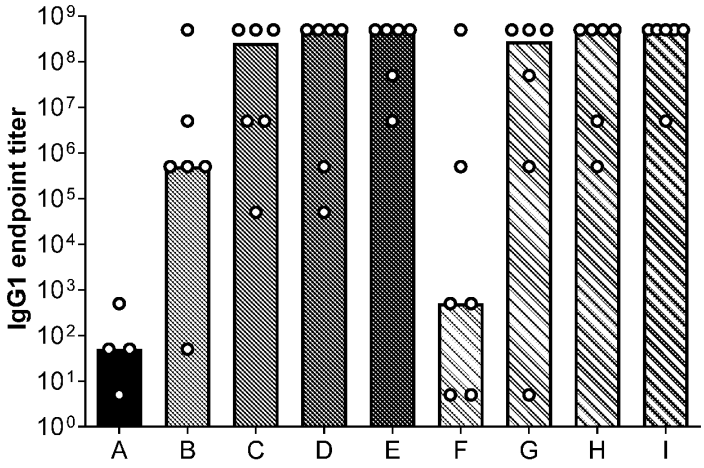


FIG. 5 continued

E



F

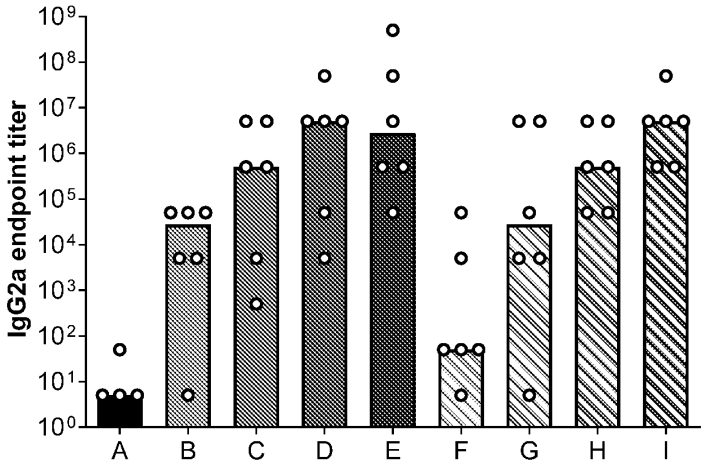
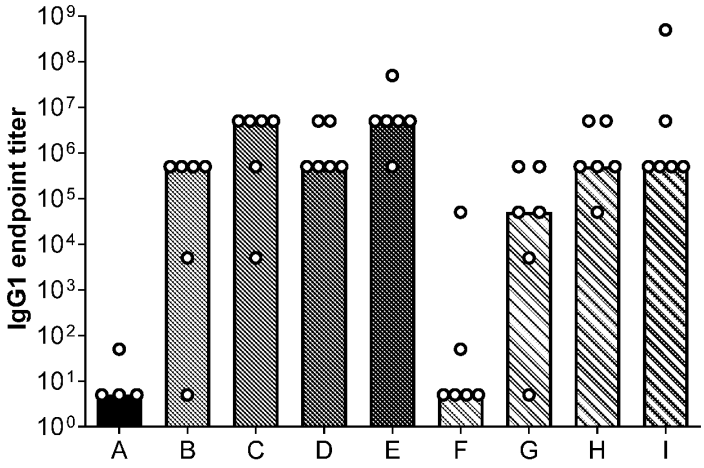


FIG. 5 continued

G



H

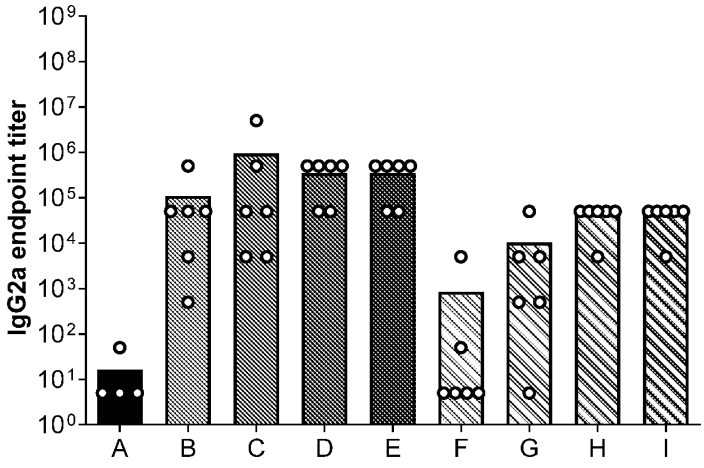
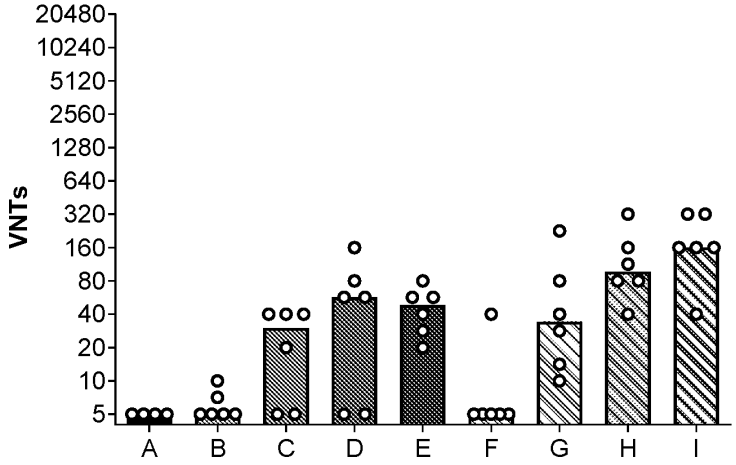


FIG. 5 continued

A


VNTs
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H
I

B

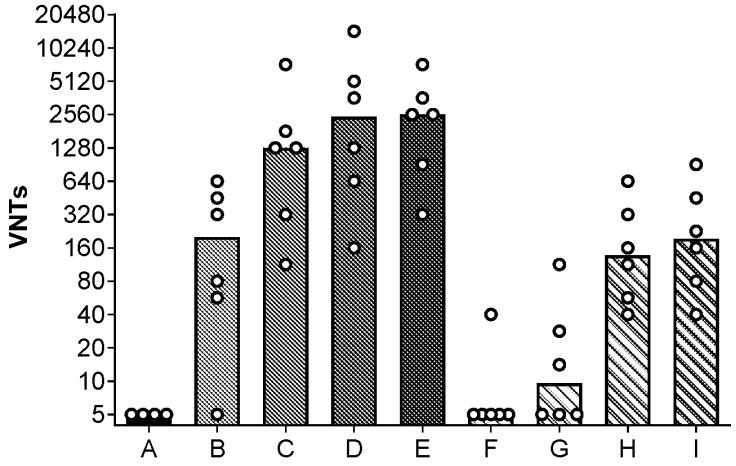
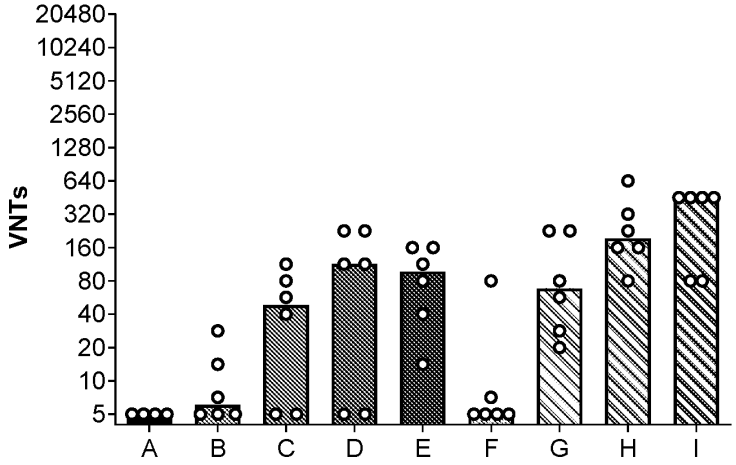

VNTs
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
A
B
C
D
E
F
G
H
I

FIG. 6

C



D

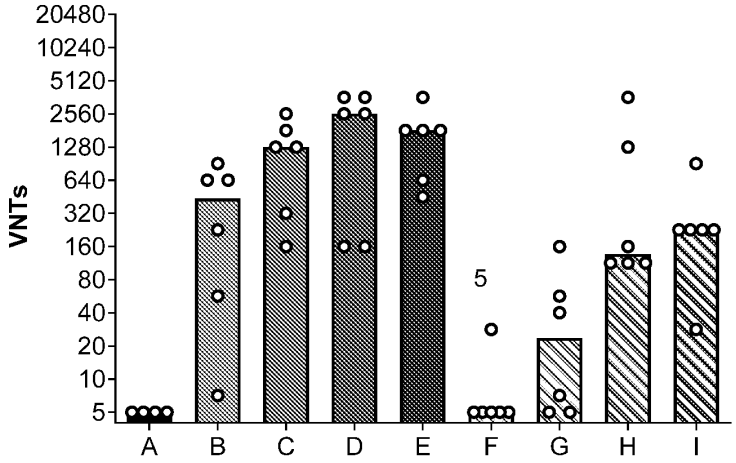
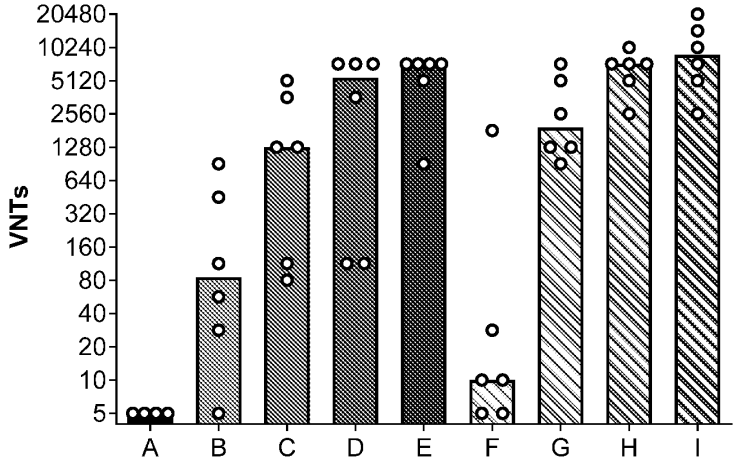


FIG. 6 continued

E



F

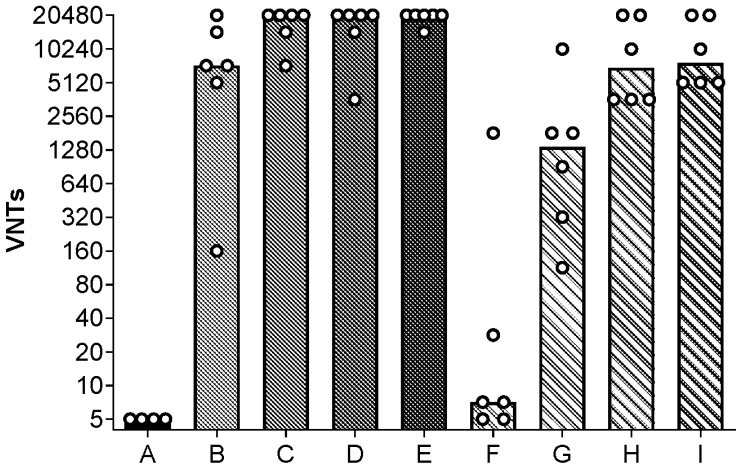
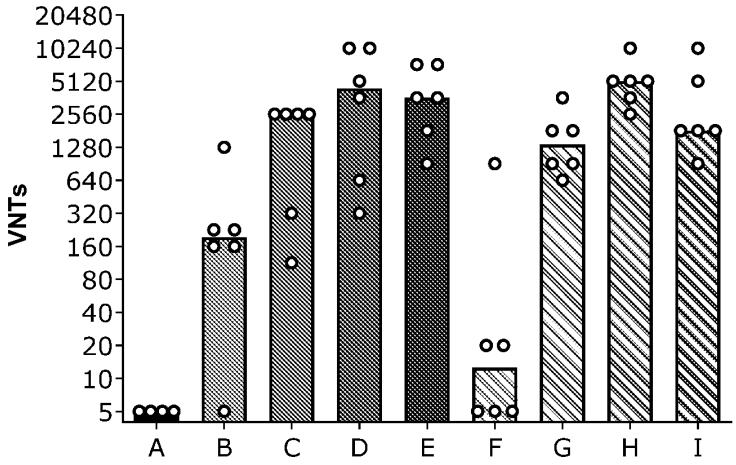


FIG. 6 continued

G



H

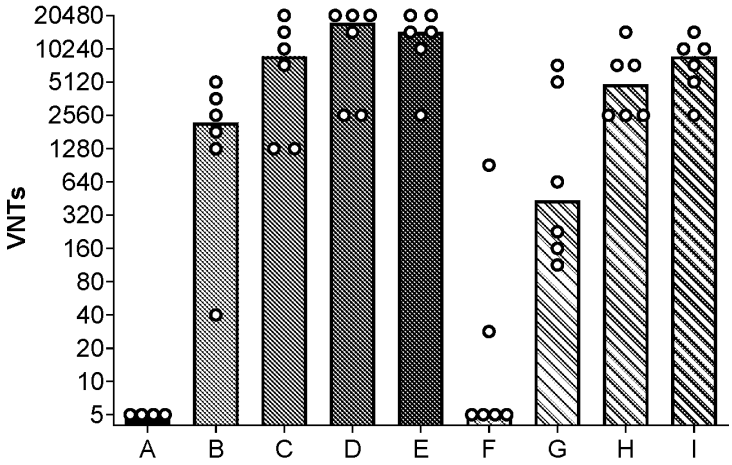


FIG. 6 continued

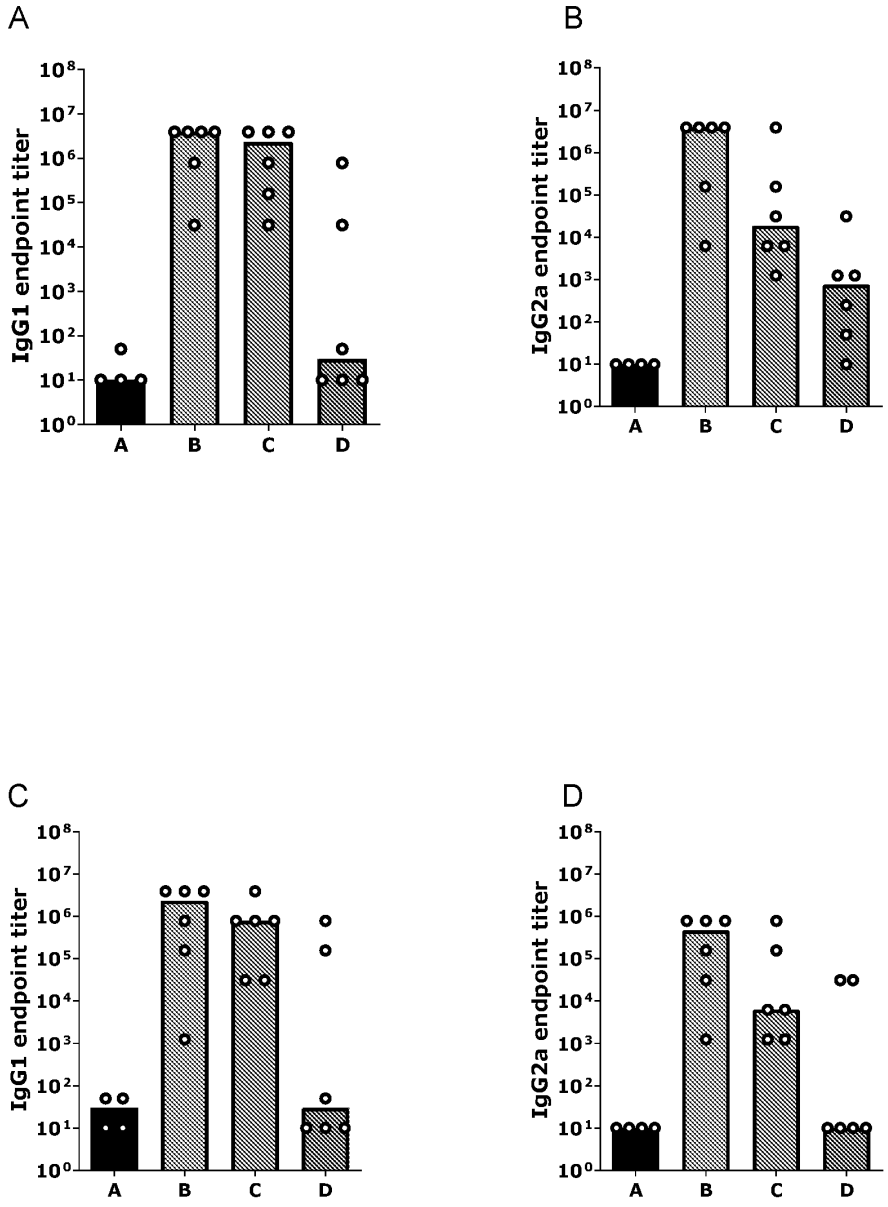

A
IgG1 endpoint titer
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D
B
IgG2a endpoint titer
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D
C
IgG1 endpoint titer
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D
D
IgG2a endpoint titer
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
10^0
A
B
C
D

FIG. 7

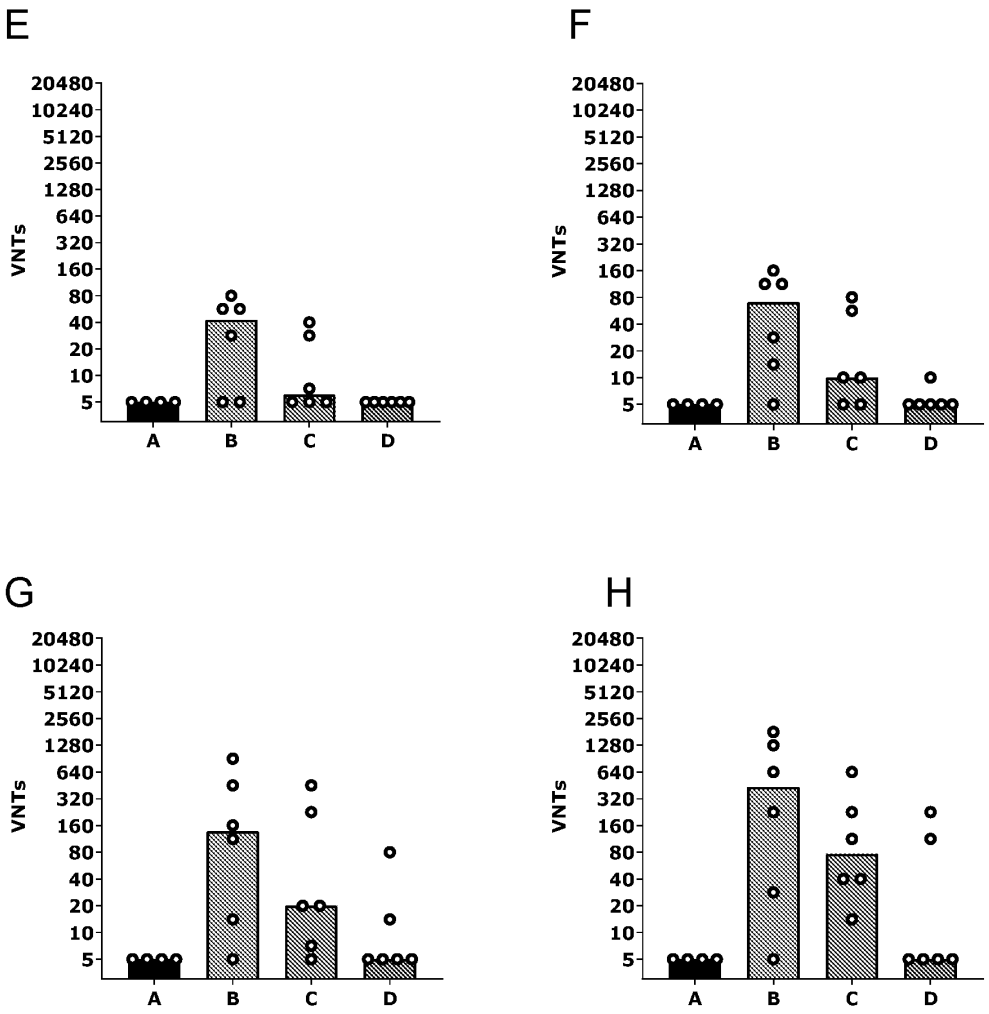


FIG. 7 continued

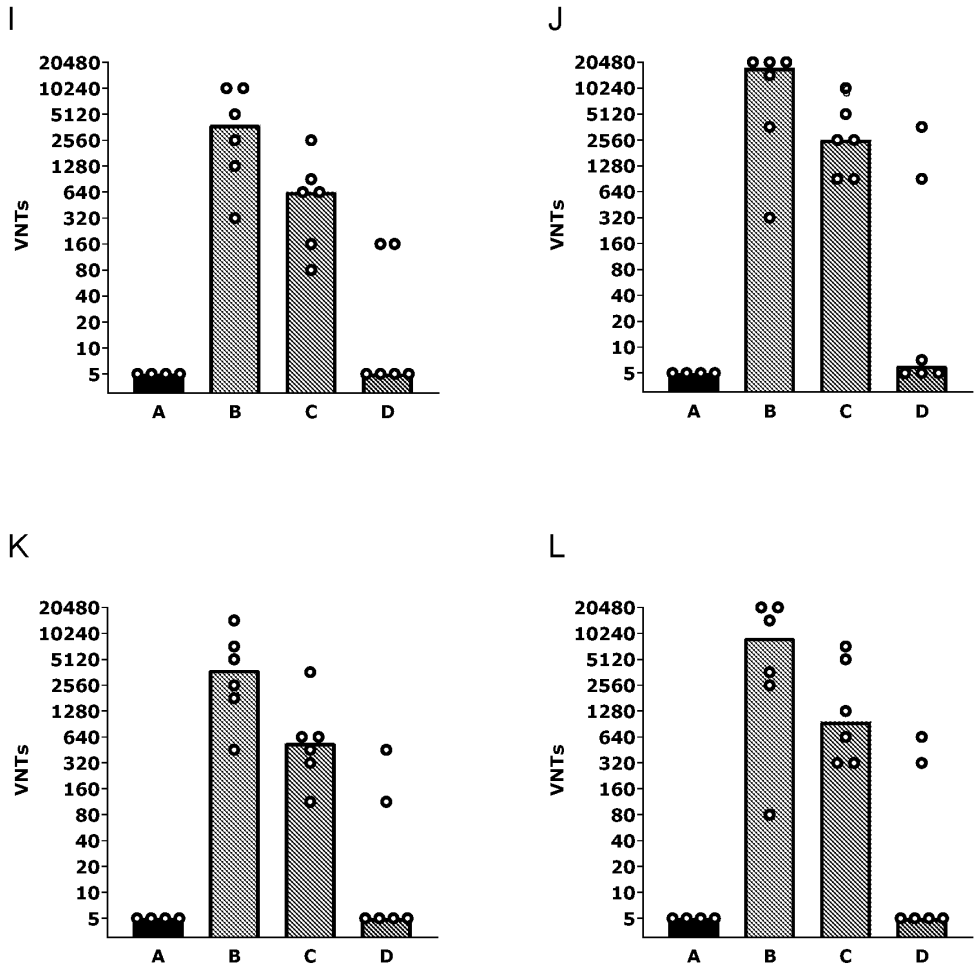


FIG. 7 continued

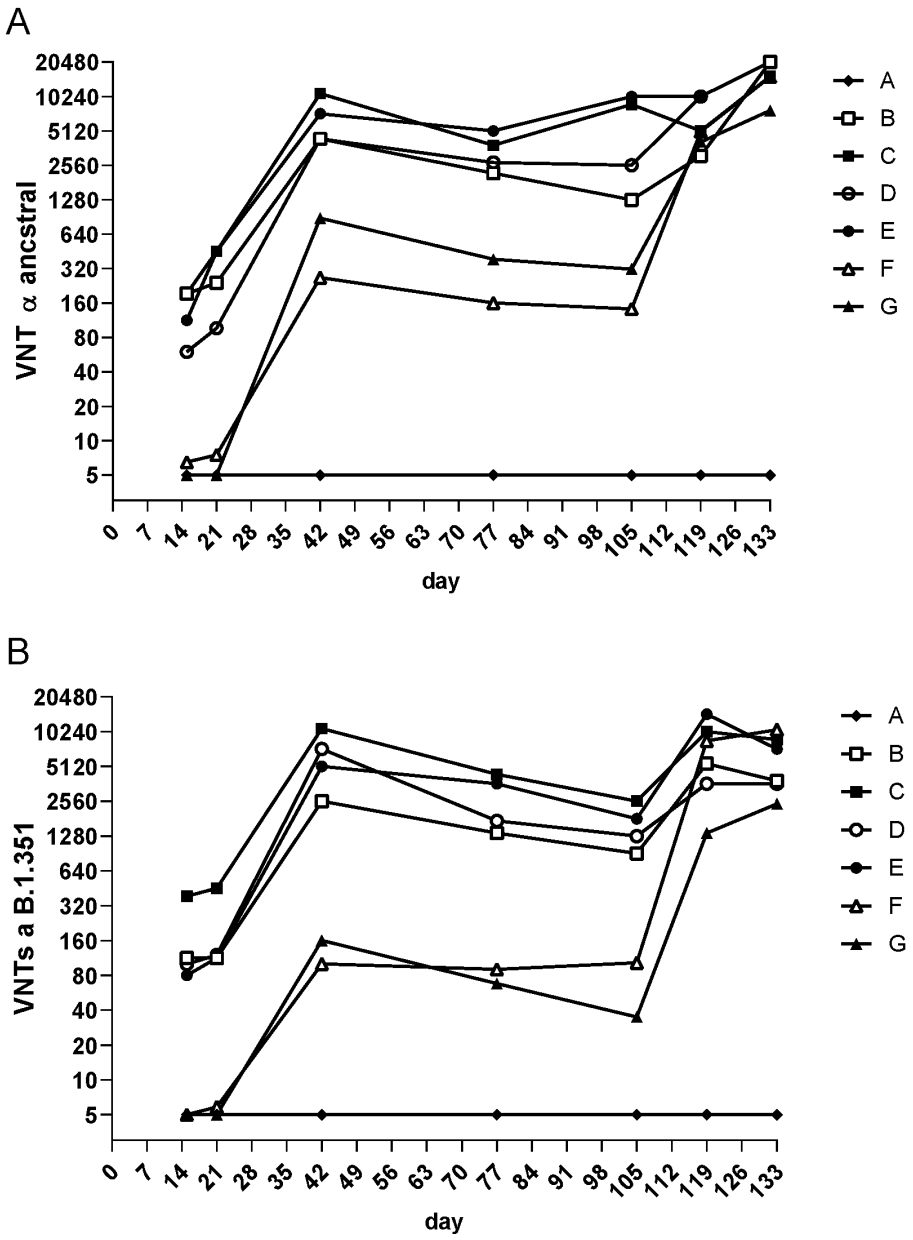

A
VNT α ancstral
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
0 7 14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133
day
A
B
C
D
E
F
G
B
VNTs a B.1.351
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
0 7 14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133
day
A
B
C
D
E
F
G

FIG. 8

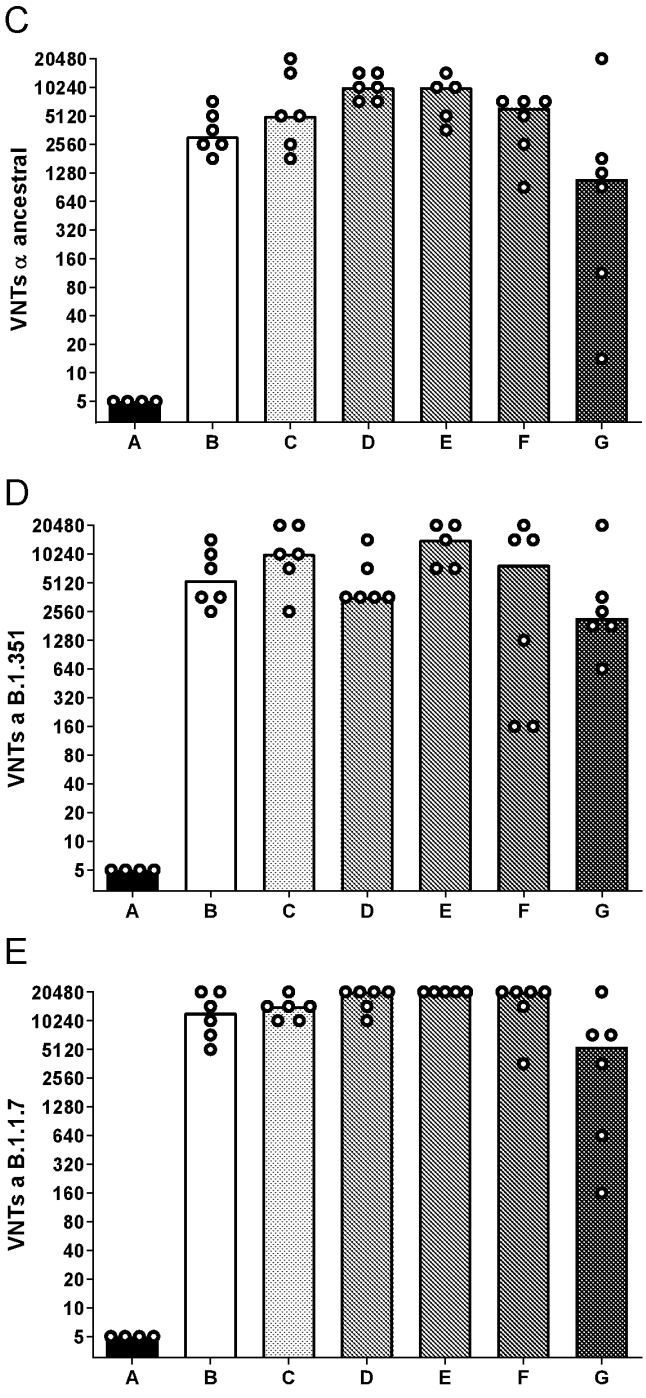


FIG. 8 continued

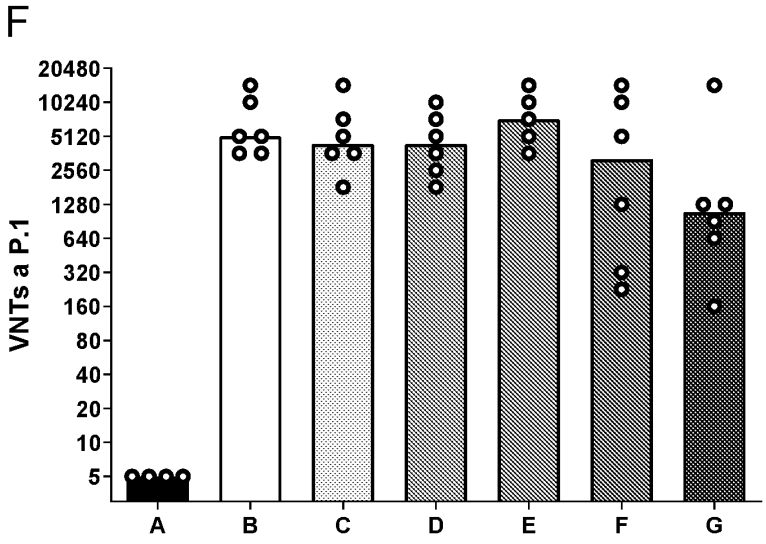


FIG. 8 continued

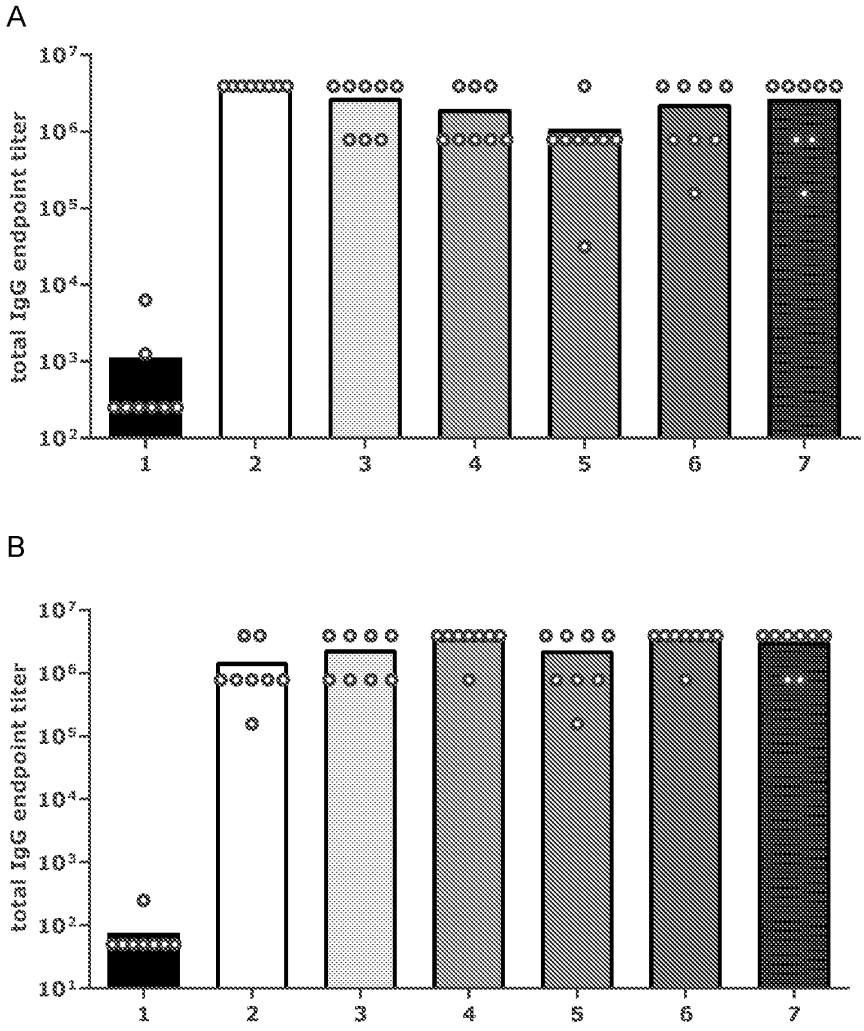
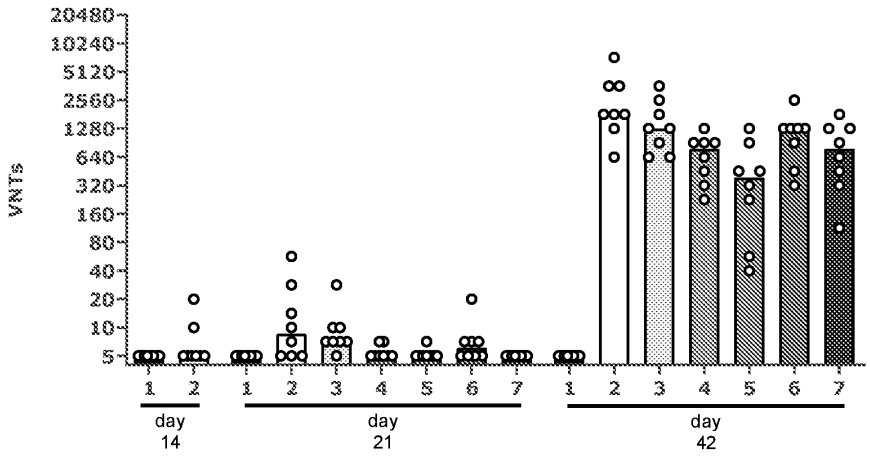

A
total IgG endpoint titer
10^7
10^6
10^5
10^4
10^3
10^2
1
2
3
4
5
6
7
B
total IgG endpoint titer
10^7
10^6
10^5
10^4
10^3
10^2
10^1
1
2
3
4
5
6
7

FIG. 9

C



D

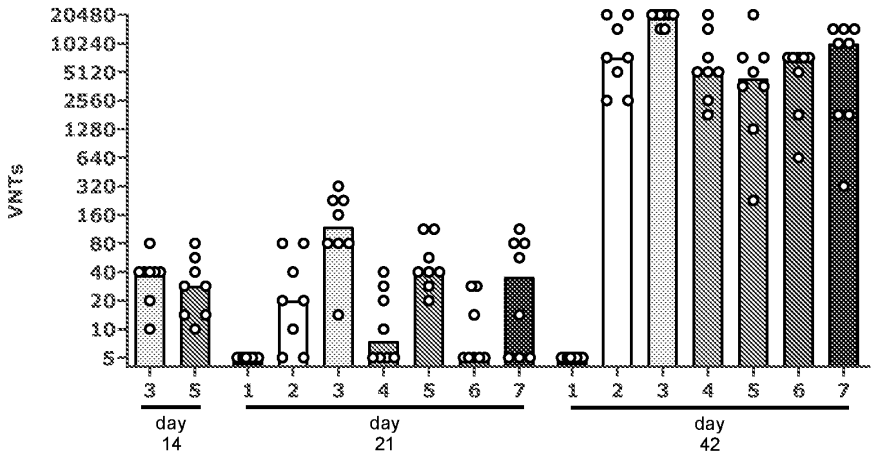


FIG. 9 continued

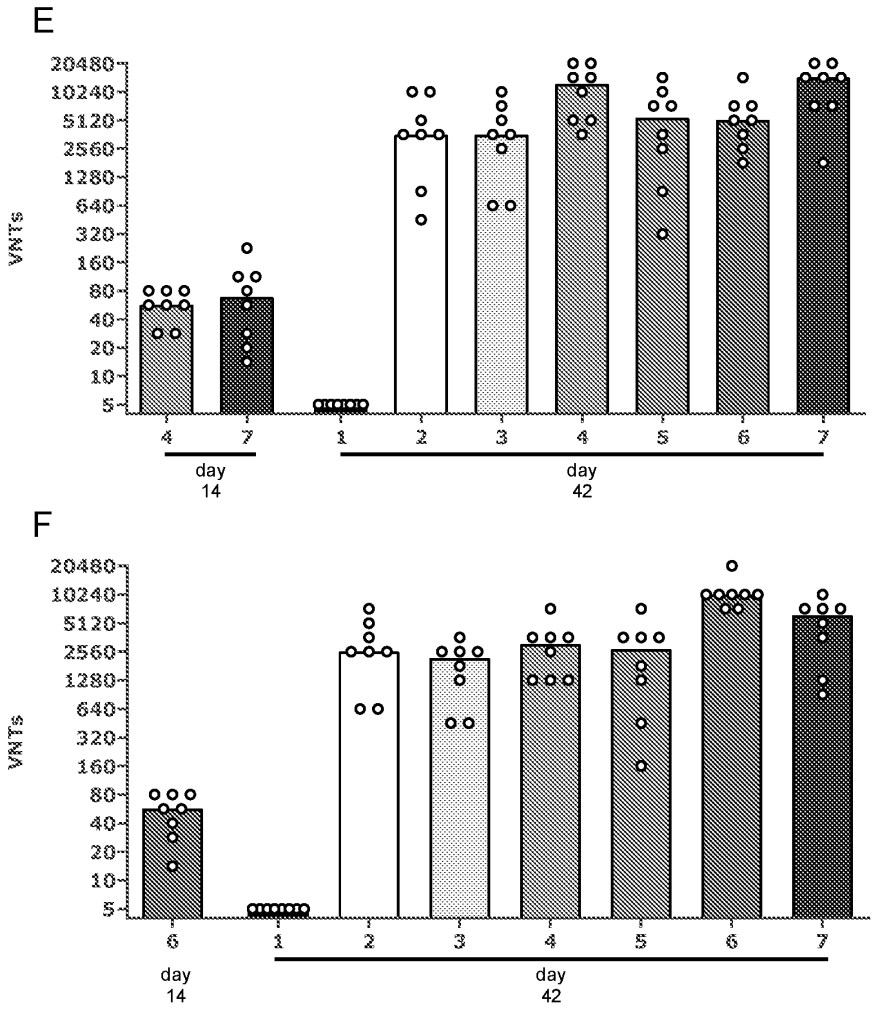


FIG. 9 continued

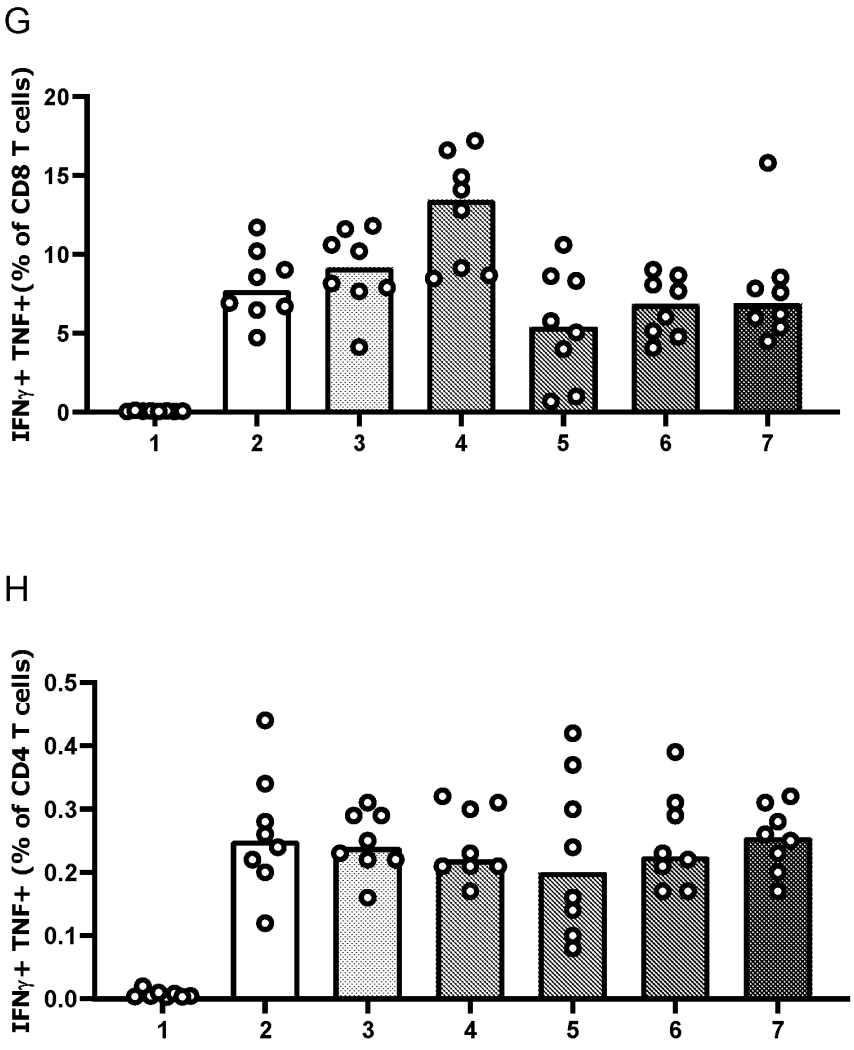


FIG. 9 continued

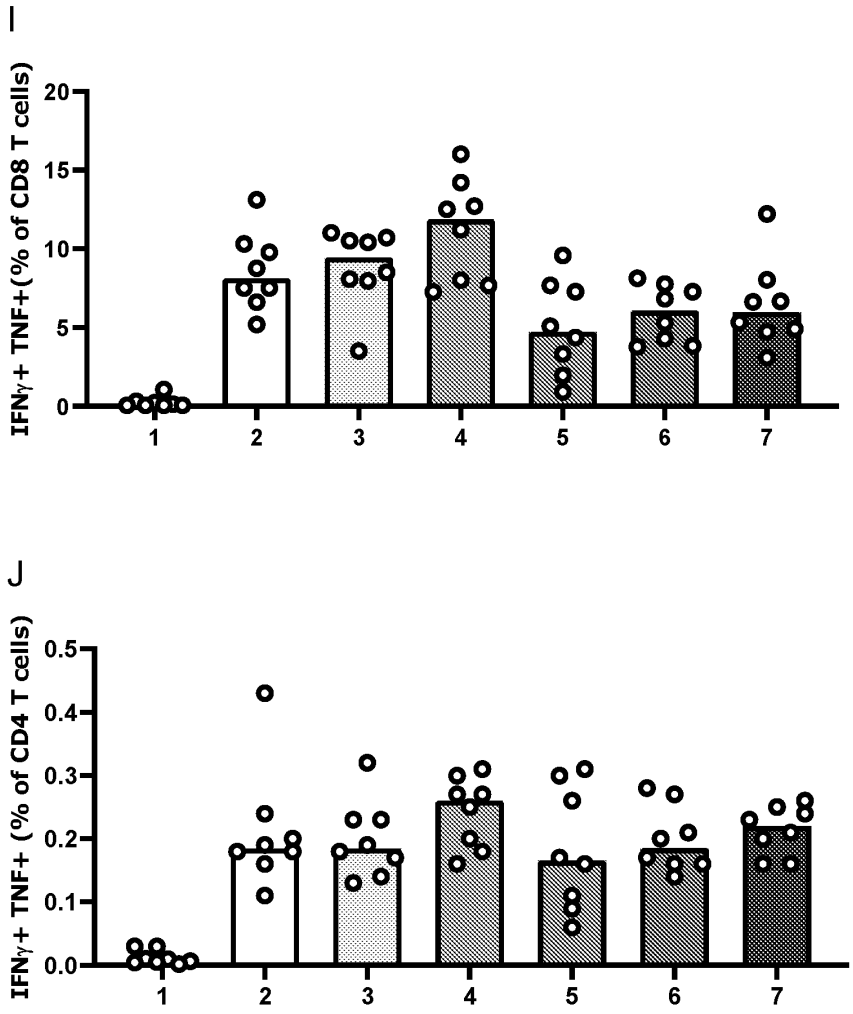


FIG. 9 continued

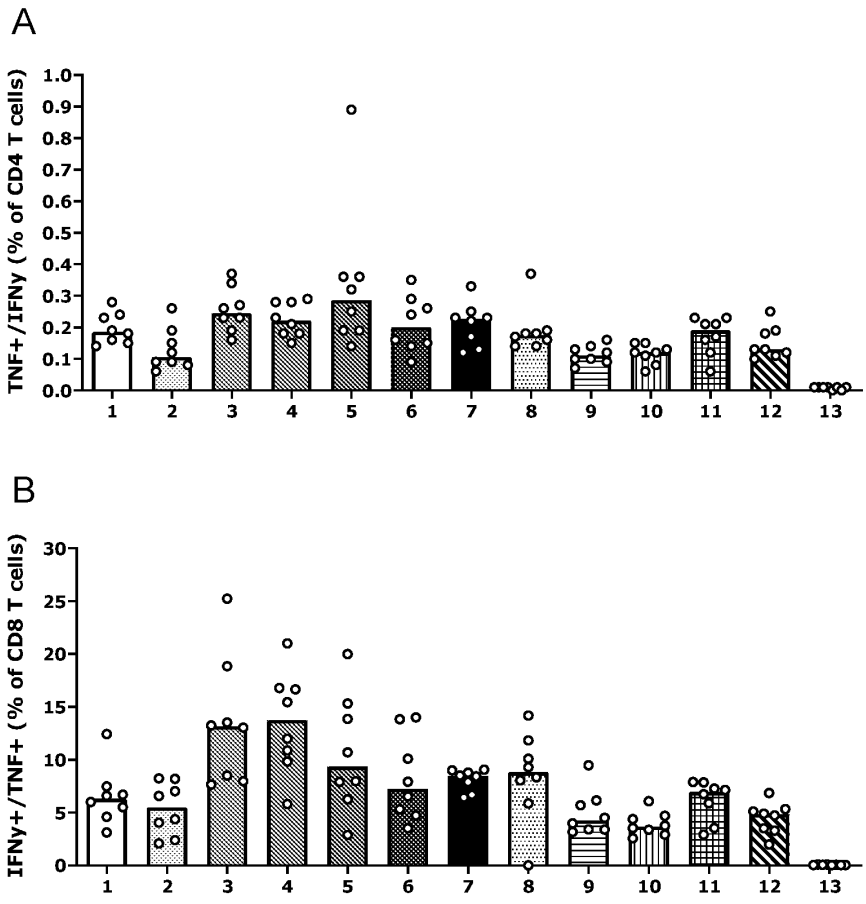

A
TNF+/IFNy (% of CD4 T cells)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1 2 3 4 5 6 7 8 9 10 11 12 13
B
IFNy+/TNF+ (% of CD8 T cells)
30
25
20
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13

FIG. 10

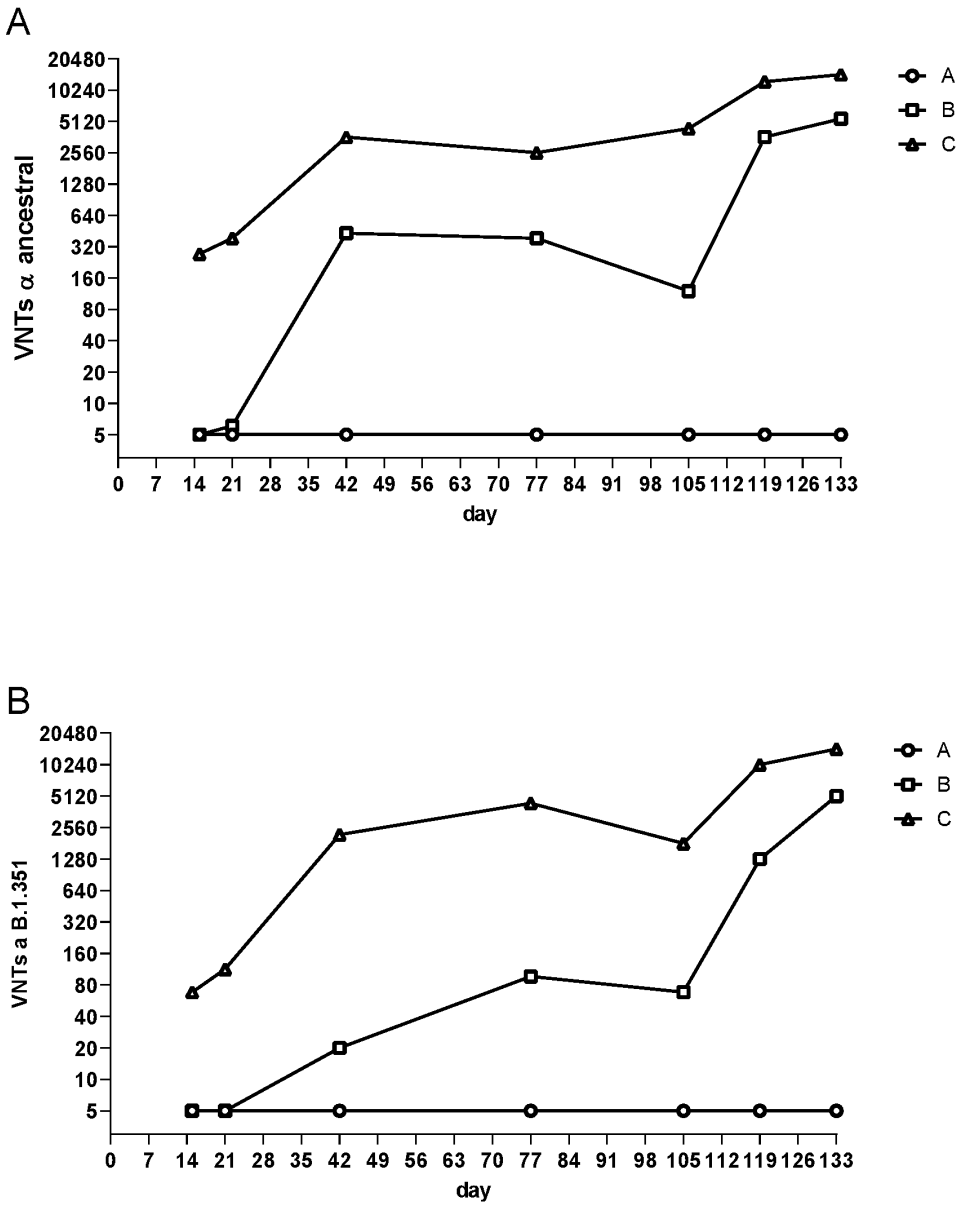

A
VNTs α ancestral
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
0 7 14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133
day
A
B
C
B
VNTs a B.1.351
20480
10240
5120
2560
1280
640
320
160
80
40
20
10
5
0 7 14 21 28 35 42 49 56 63 70 77 84 91 98 105 112 119 126 133
day
A
B
C

FIG. 11

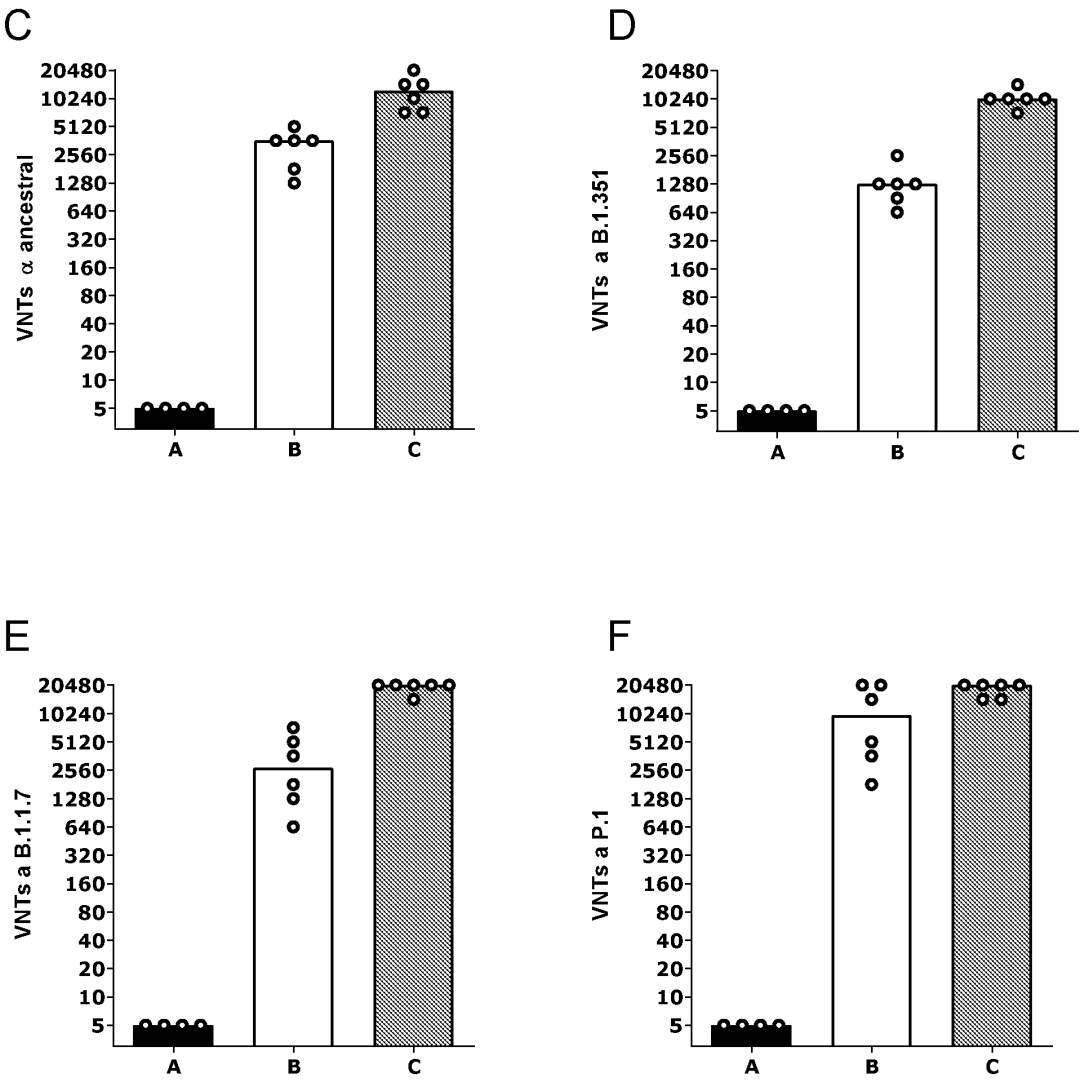


FIG. 11 continued

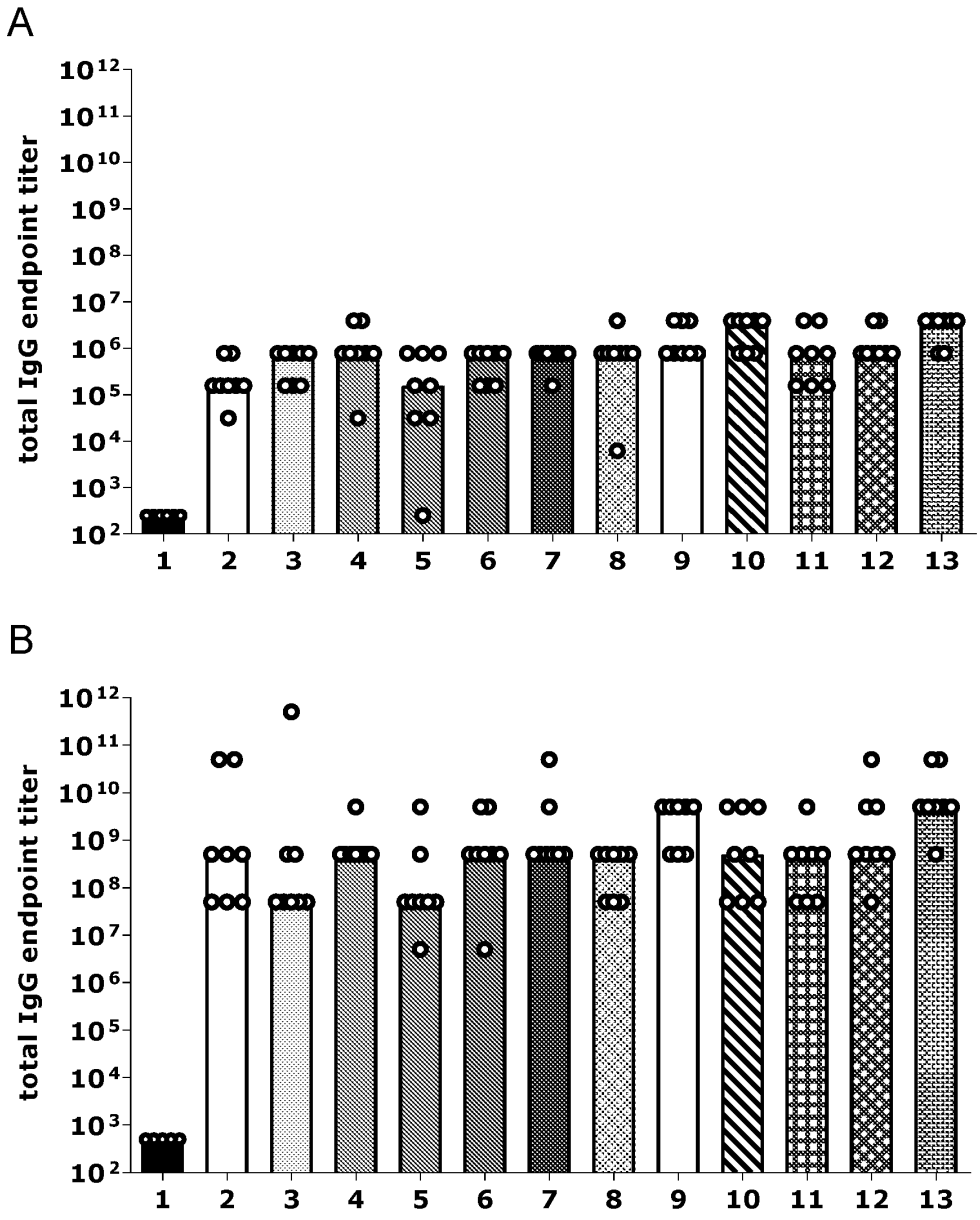

A
total IgG endpoint titer
10^{12}
10^{11}
10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
1 2 3 4 5 6 7 8 9 10 11 12 13
B
total IgG endpoint titer
10^{12}
10^{11}
10^{10}
10^{9}
10^{8}
10^{7}
10^{6}
10^{5}
10^{4}
10^{3}
10^{2}
1 2 3 4 5 6 7 8 9 10 11 12 13

FIG. 12

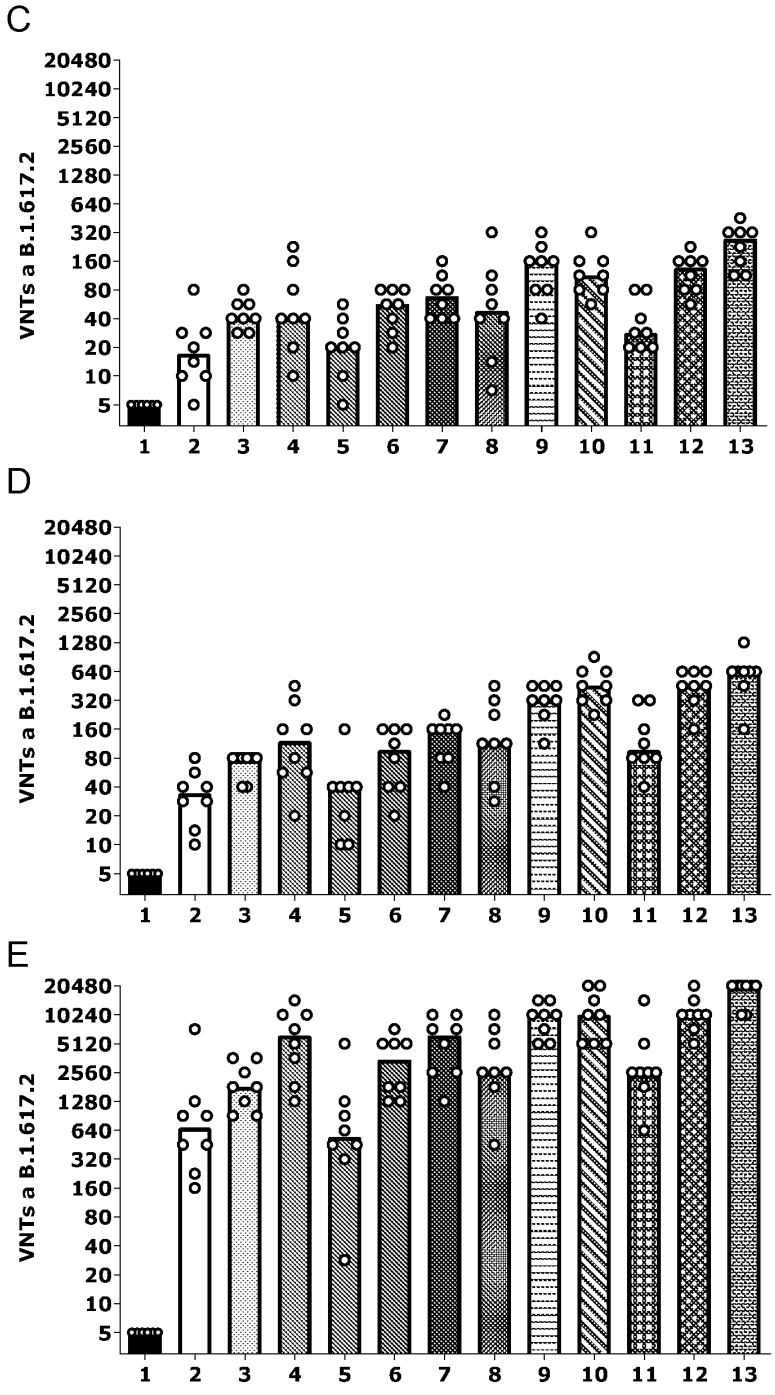


FIG. 12 continued

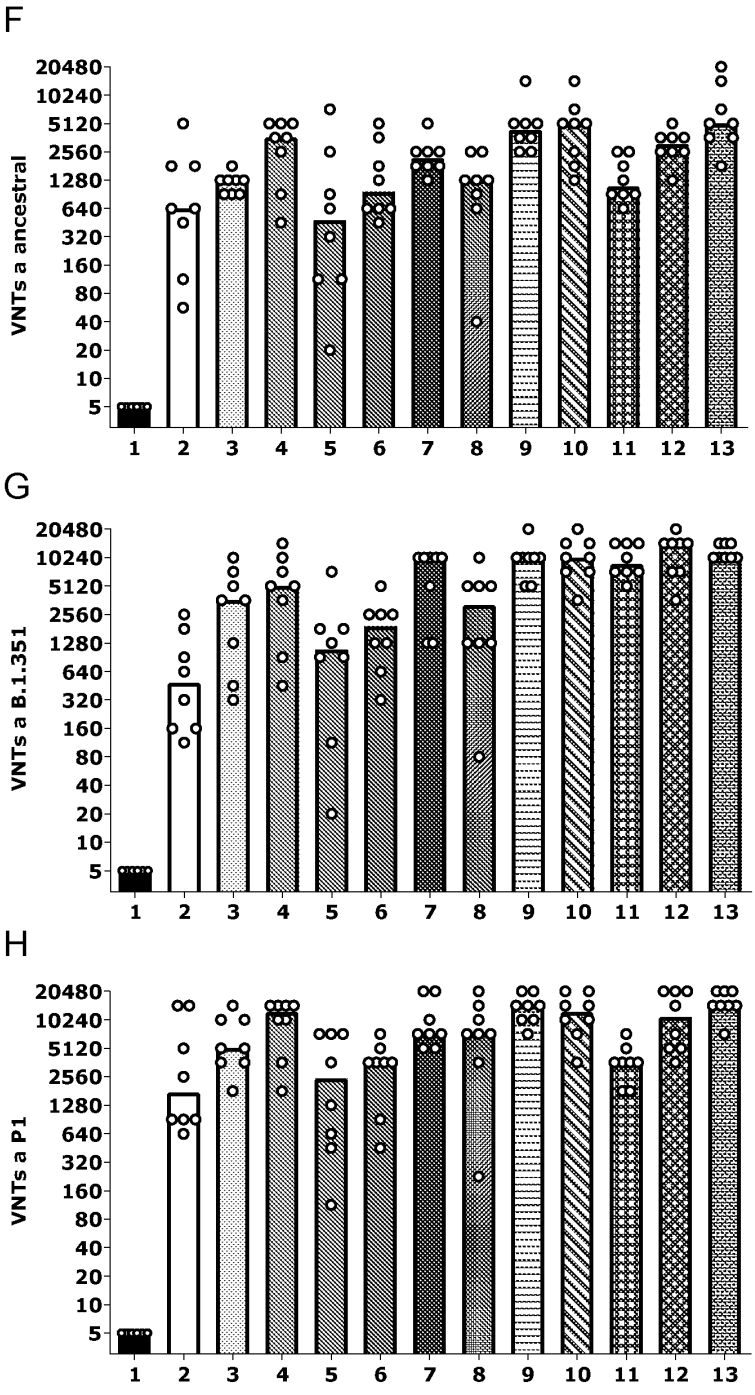


FIG. 12 continued

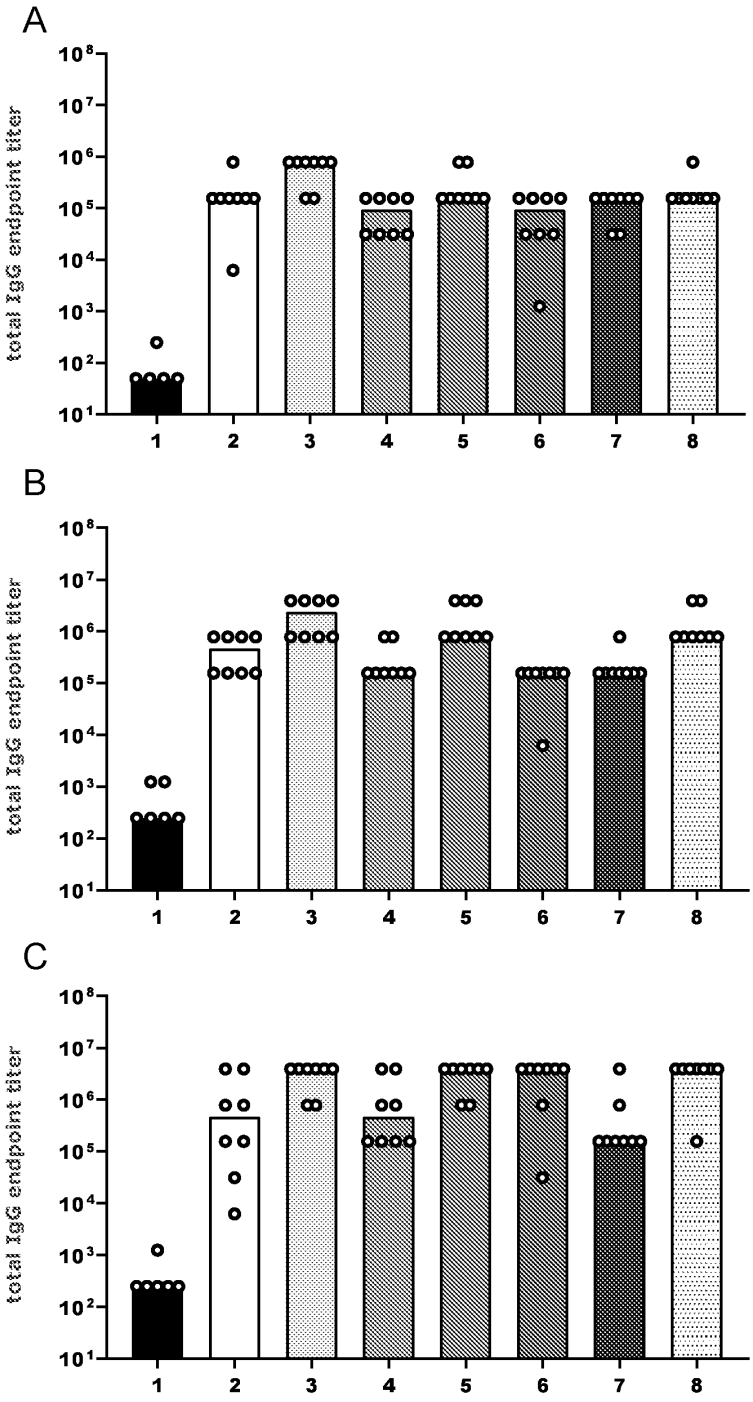

A
B
C
total IgG endpoint titer
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10^1
1
2
3
4
5
6
7
8

FIG. 13

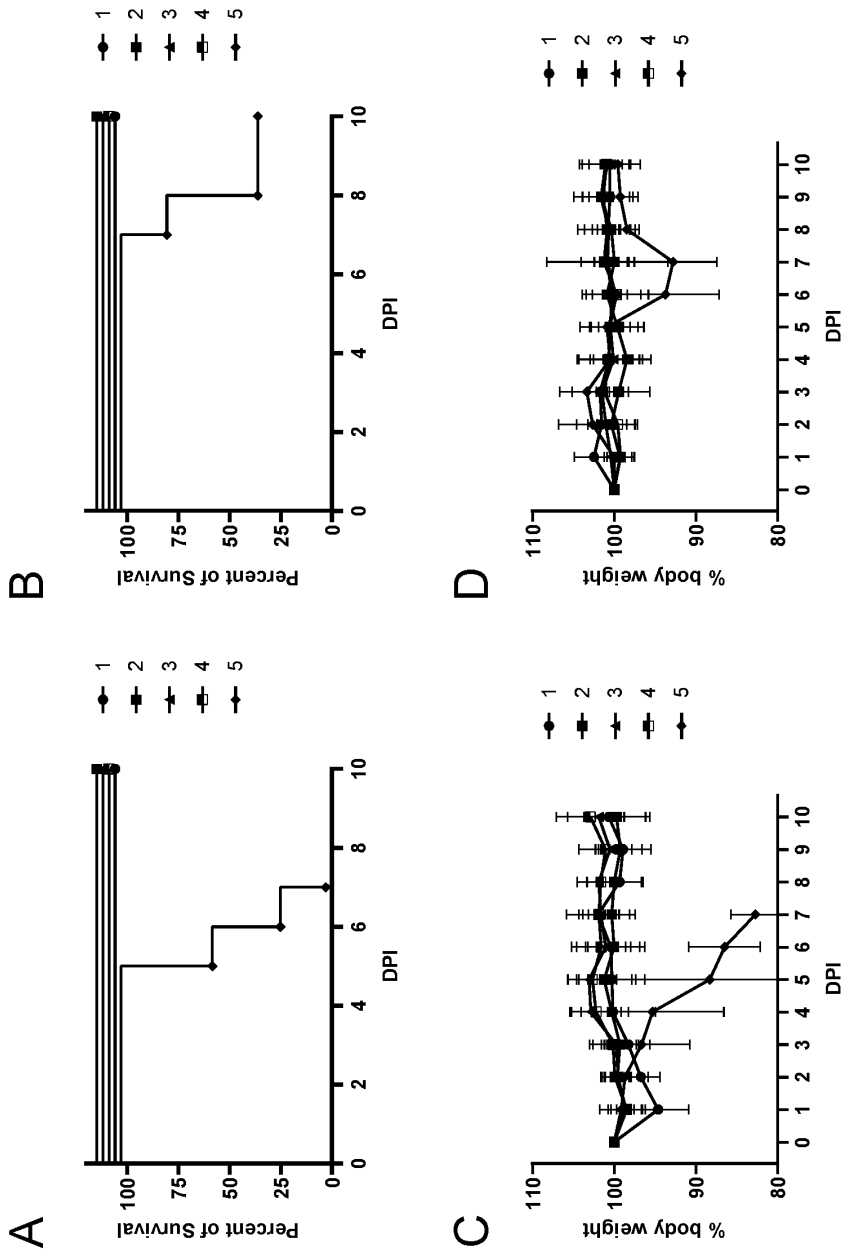


FIG. 14

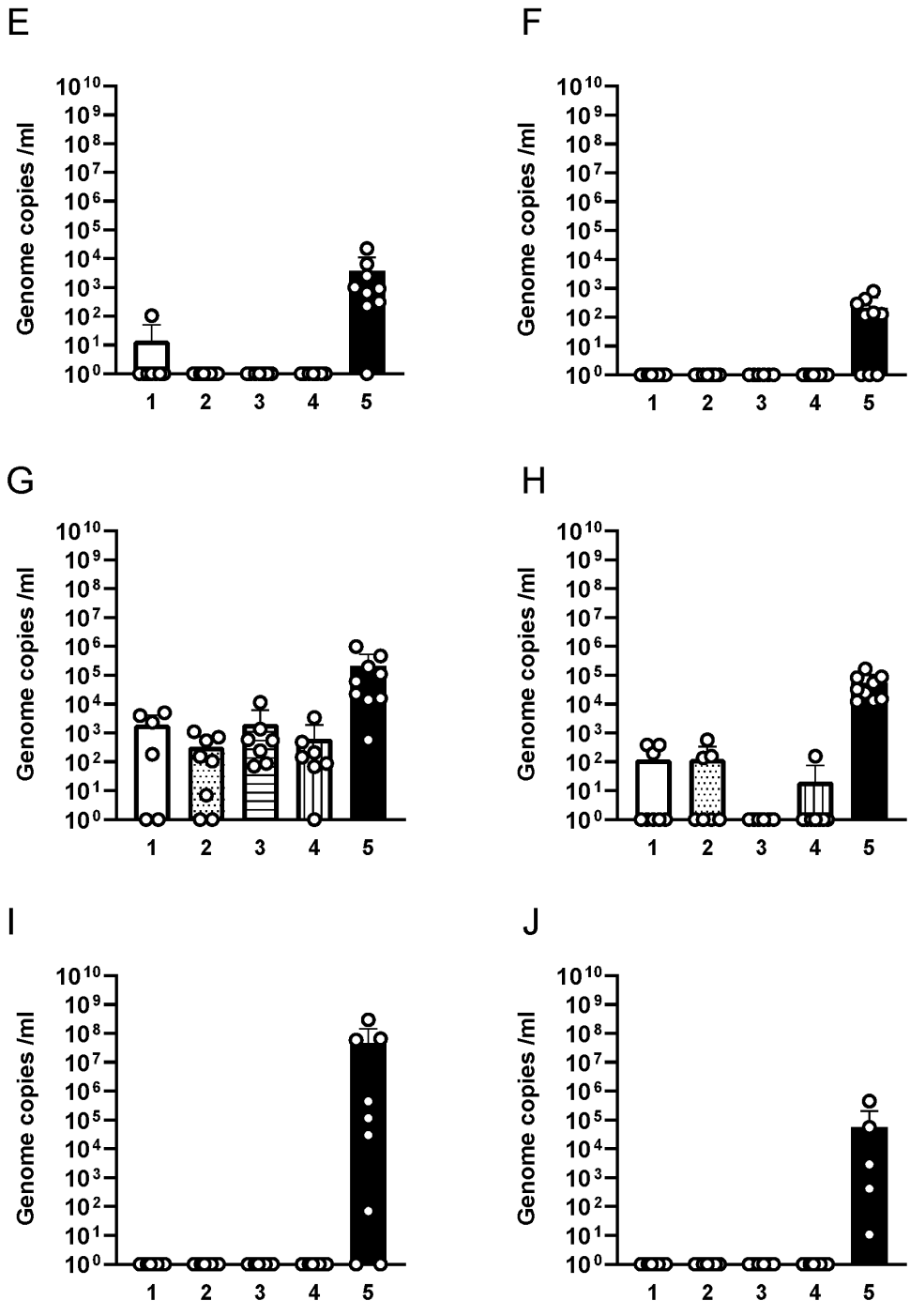


FIG. 14 continued

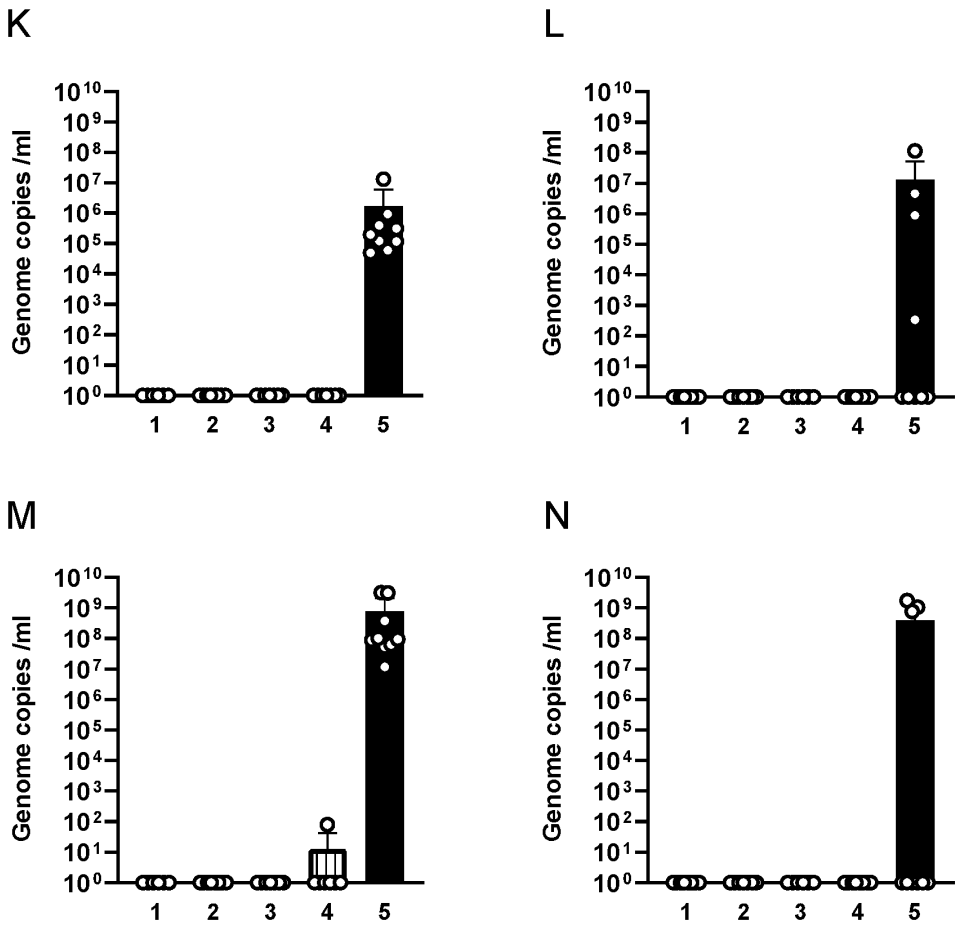
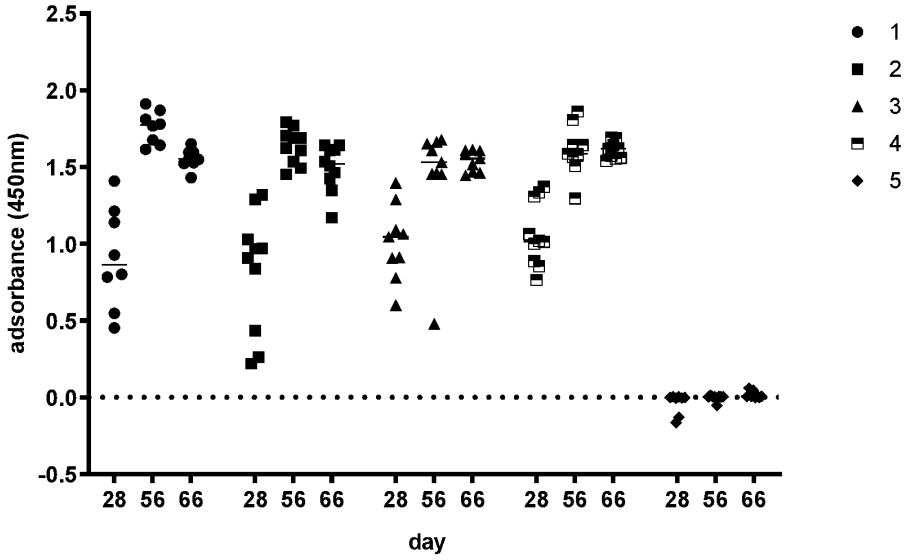


FIG. 14 continued

O



P

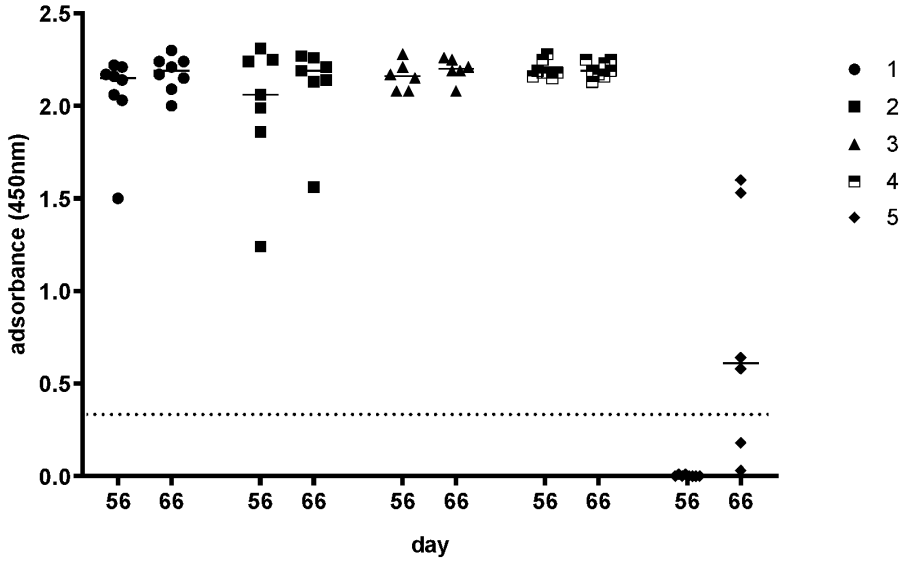


FIG. 14 continued

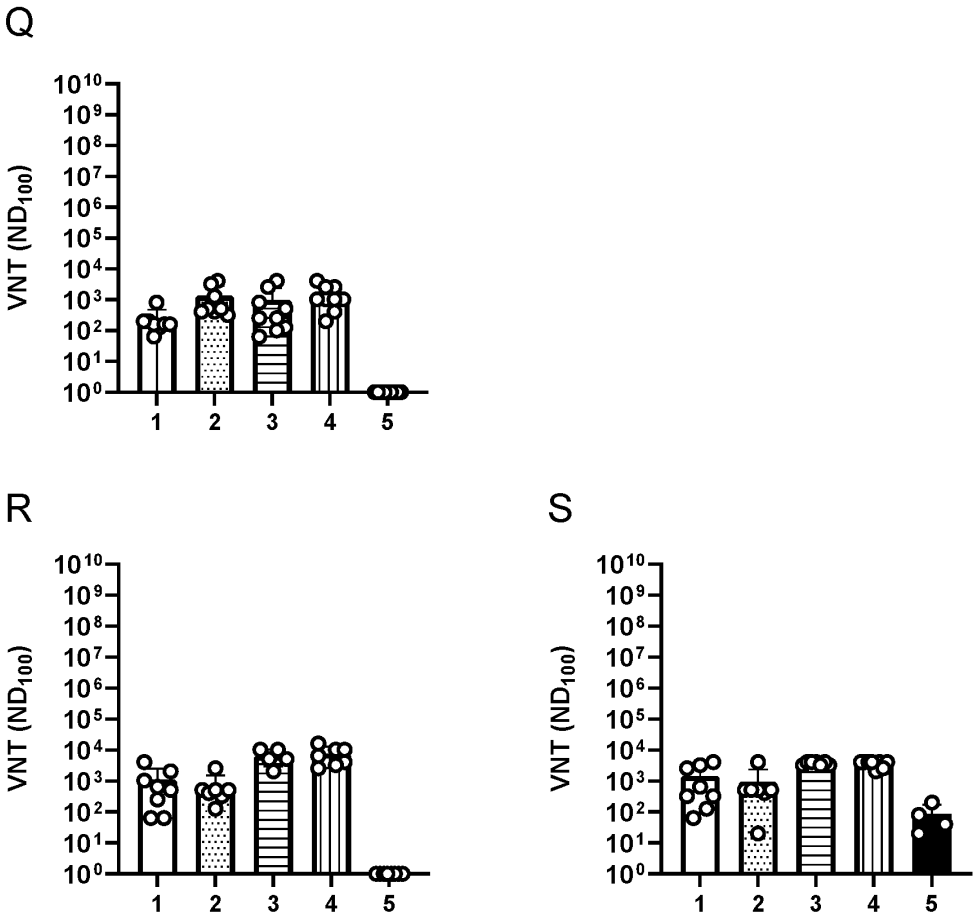


FIG. 14 continued

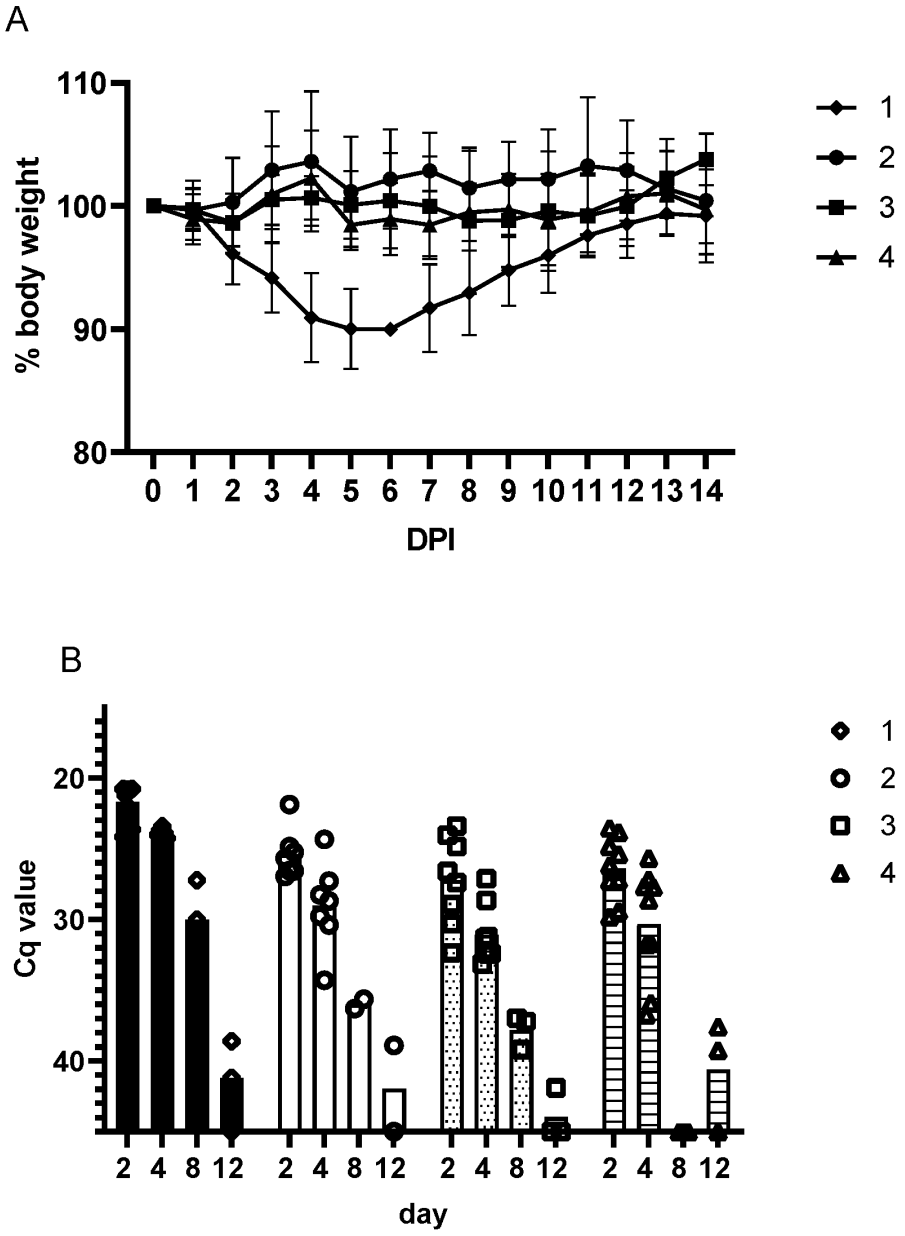

A
110
100
90
80
% body weight
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
DPI
1
2
3
4
B
20
30
40
Cq value
2 4 8 12 2 4 8 12 2 4 8 12 2 4 8 12
day
1
2
3
4

FIG. 15

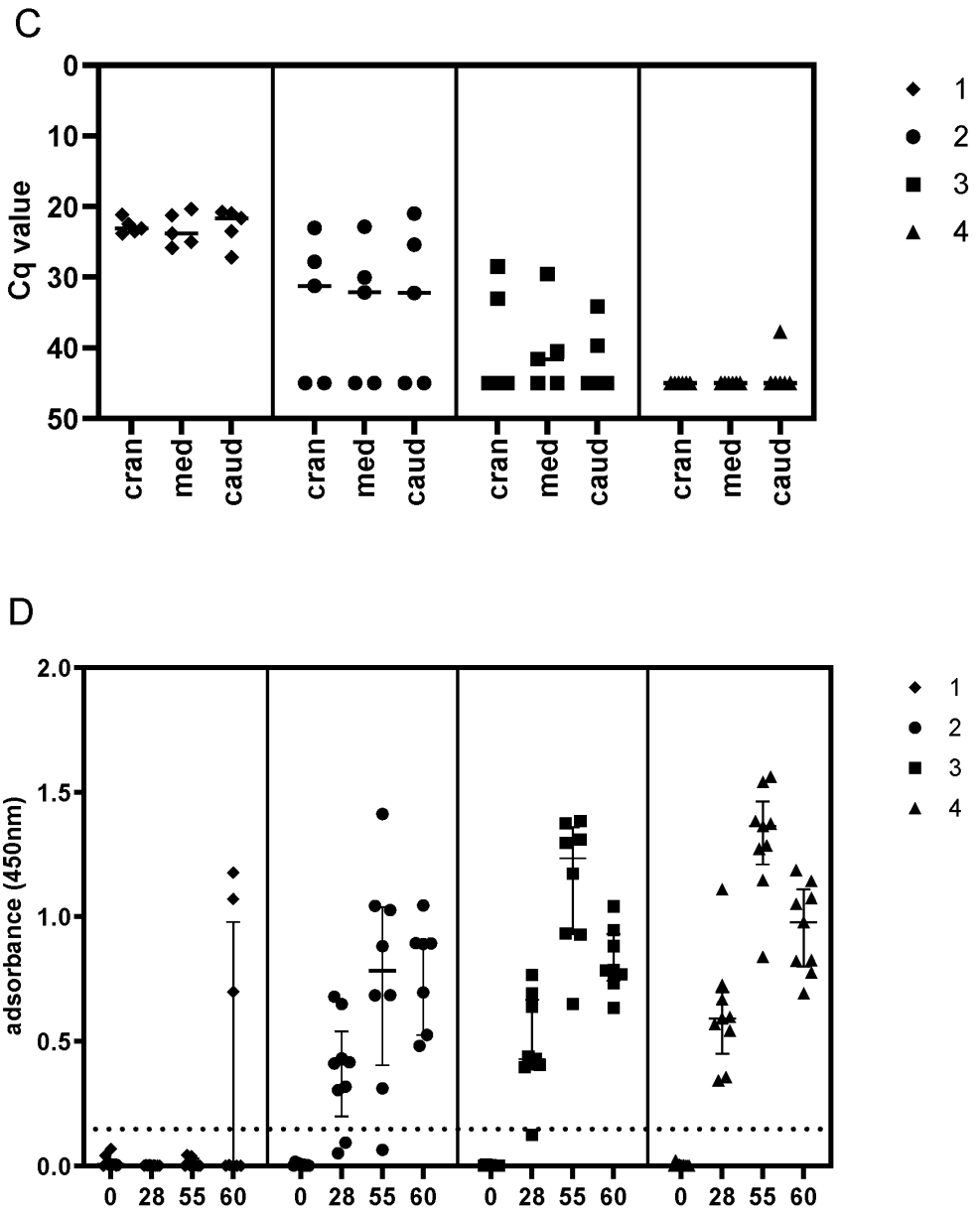


FIG. 15 continued

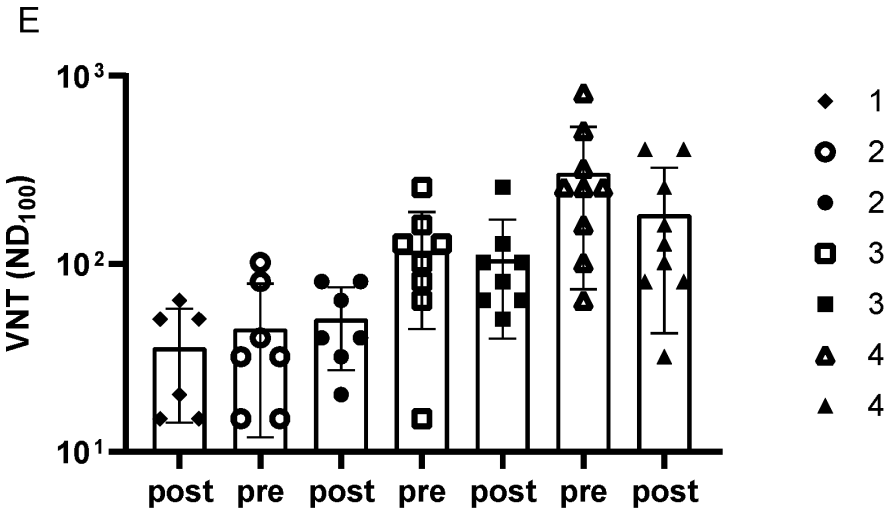


FIG. 15 continued