FIG. 1A

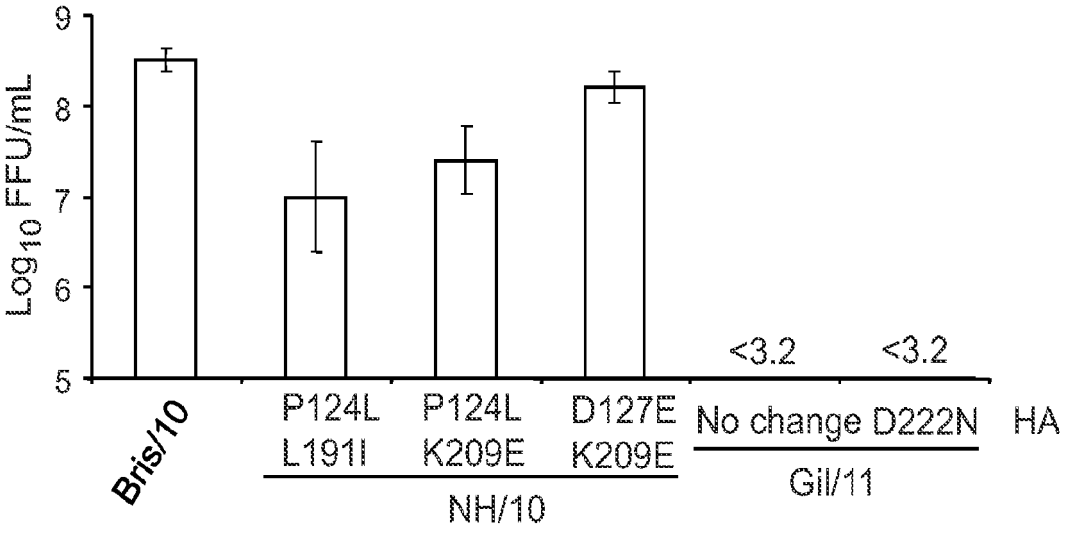

9
8
7
6
5
Log10 FFU/mL
<3.2
<3.2
Bris/10
P124L
L191I
P124L
K209E
D127E
K209E
No change
D222N
HA
NH/10
Gil/11

FIG. 1B

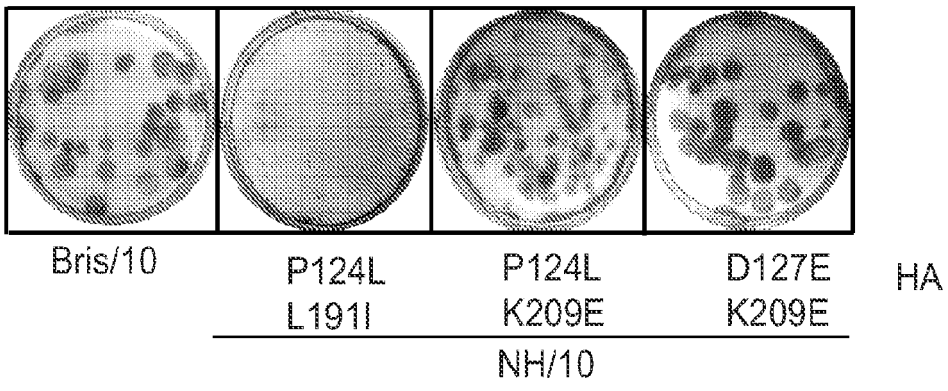

Bris/10
P124L
L191I
P124L
K209E
D127E
K209E
HA
NH/10

FIG. 2A

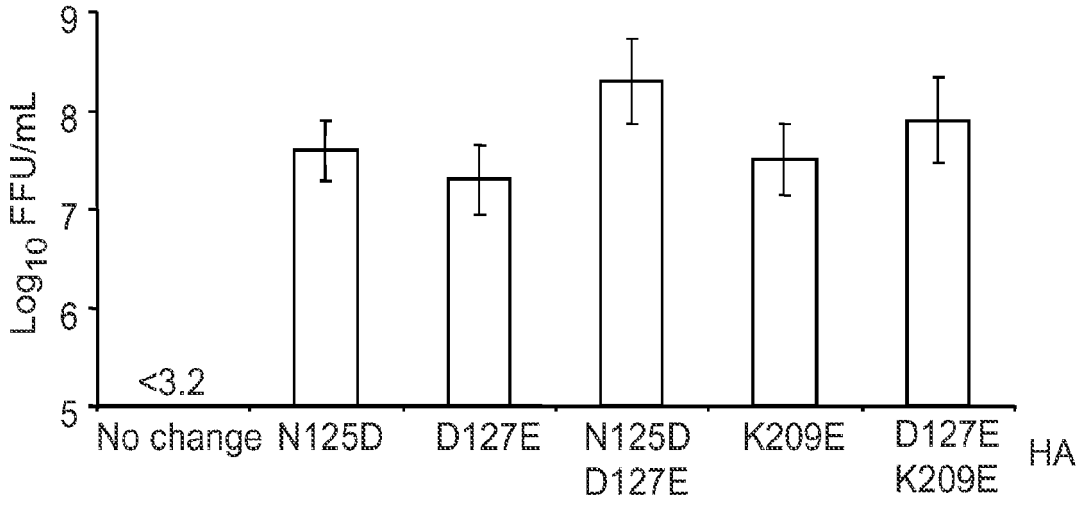

9
8
7
6
5
Log10 FFU/mL
<3.2
No change
N125D
D127E
N125D
D127E
K209E
D127E
K209E
HA

FIG. 2B

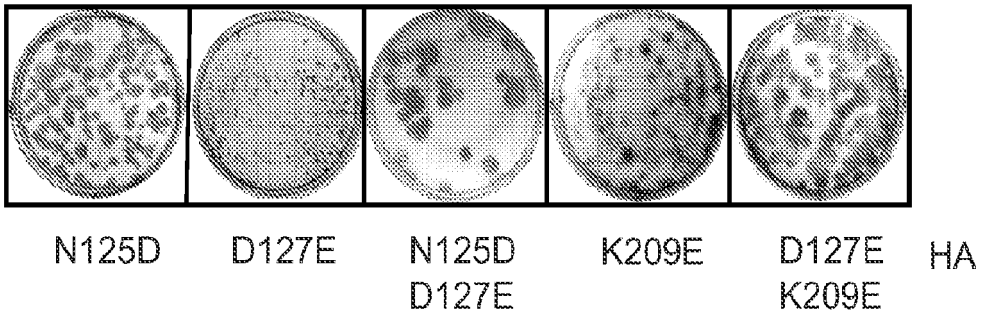

N125D
D127E
N125D
D127E
K209E
D127E
K209E
HA

FIG. 3A

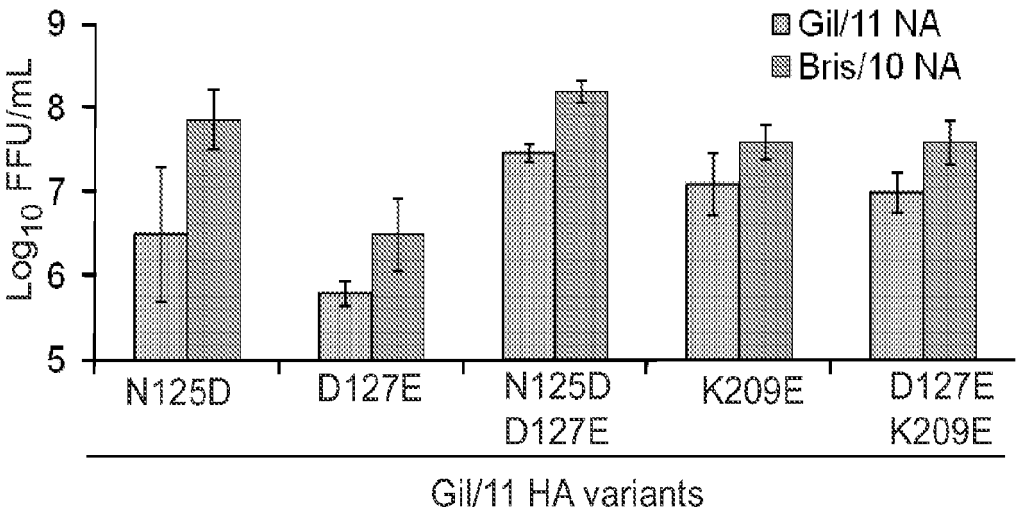

9
8
7
6
5
Log10 FFU/mL
Gil/11 NA
Bris/10 NA
N125D
D127E
N125D D127E
K209E
D127E K209E
Gil/11 HA variants

FIG. 3B

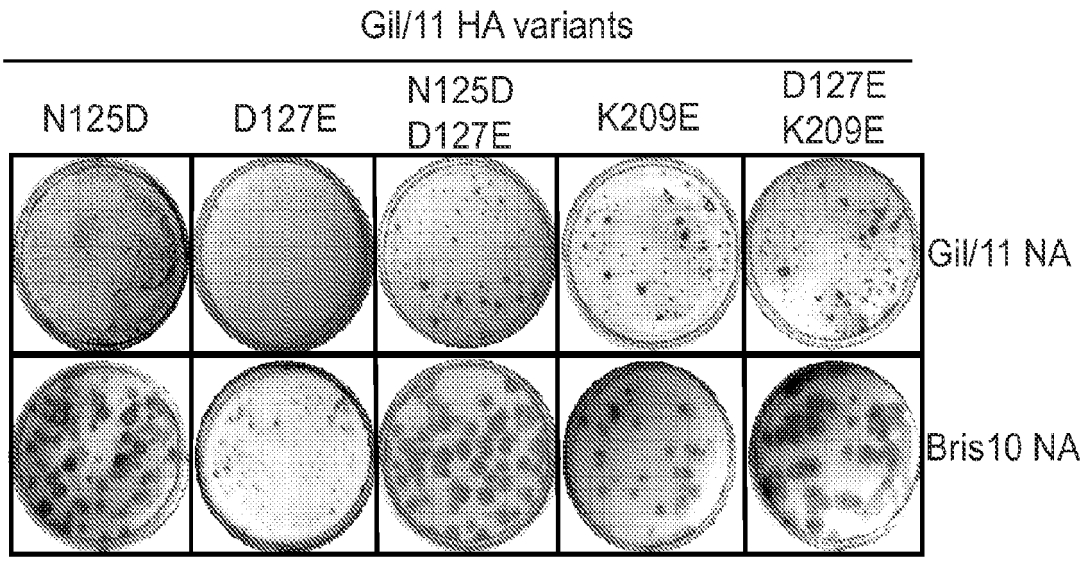

Gil/11 HA variants
N125D
D127E
N125D D127E
K209E
D127E K209E
Gil/11 NA
Bris10 NA

FIG. 4A

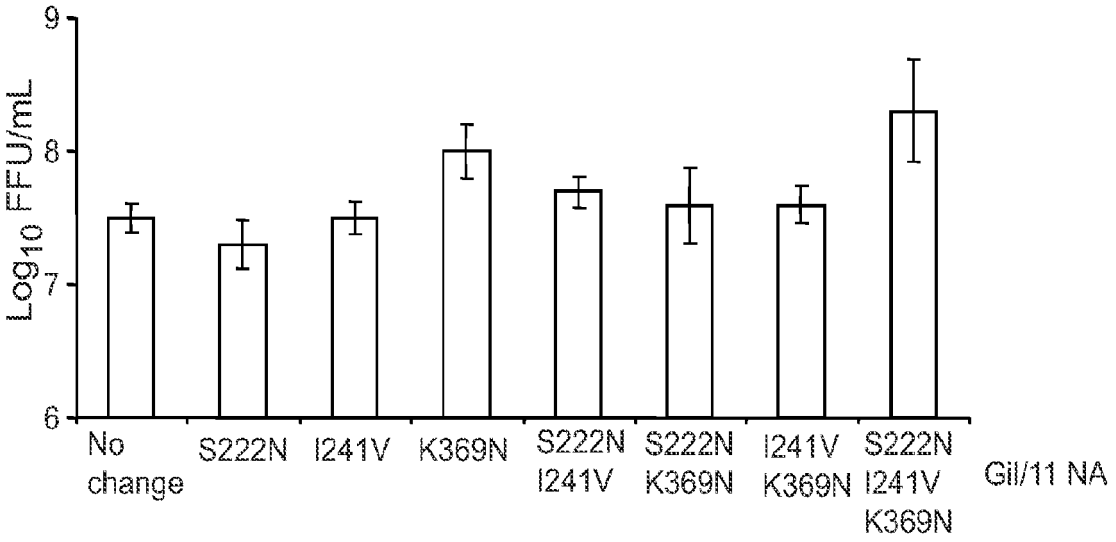

9
8
7
6
Log10 FFU/mL
No change
S222N
I241V
K369N
S222N I241V
S222N K369N
I241V K369N
S222N I241V K369N
Gil/11 NA

FIG. 4B

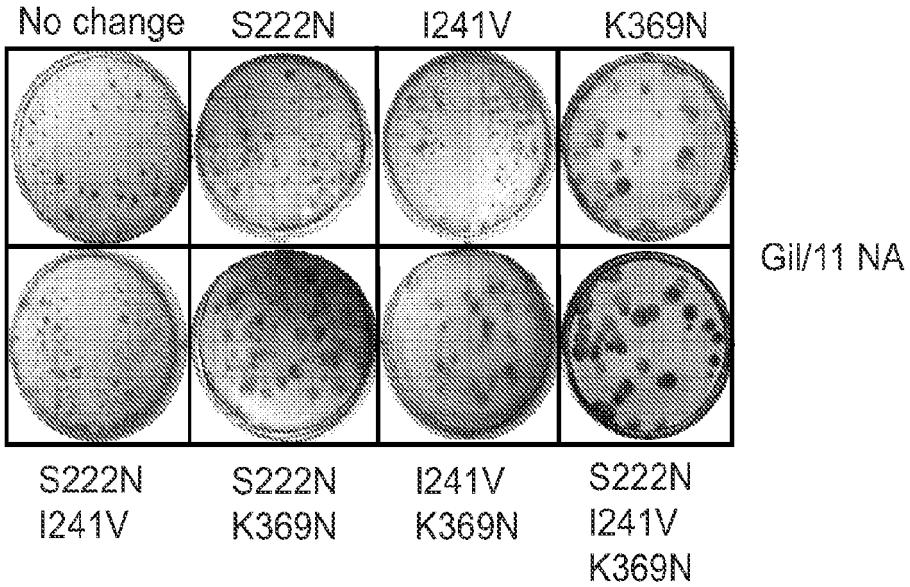

No change
S222N
I241V
K369N
Gil/11 NA
S222N I241V
S222N K369N
I241V K369N
S222N I241V K369N

FIG. 5A

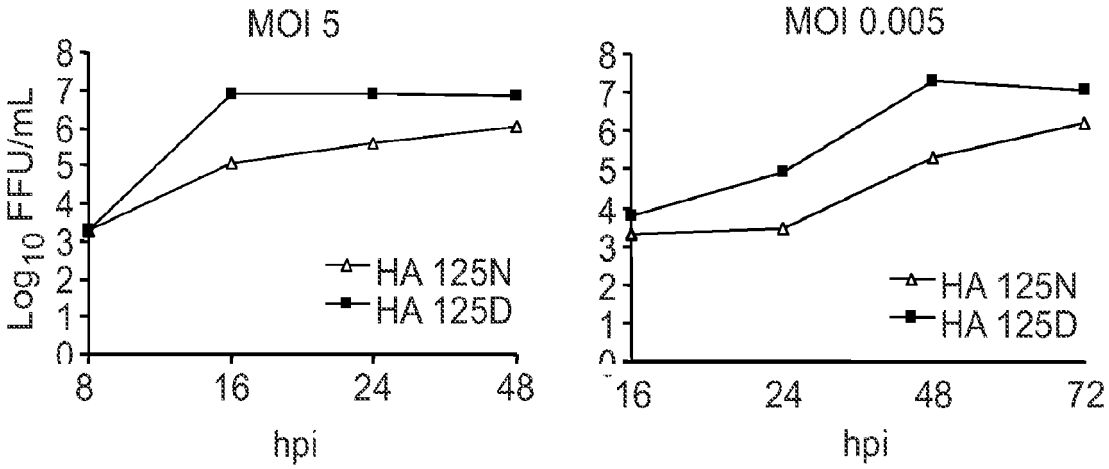


FIG. 5B

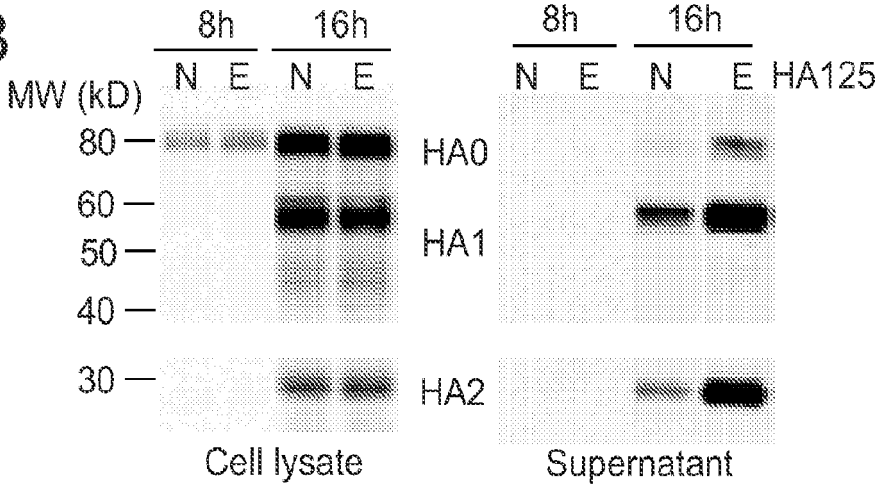


FIG. 5C

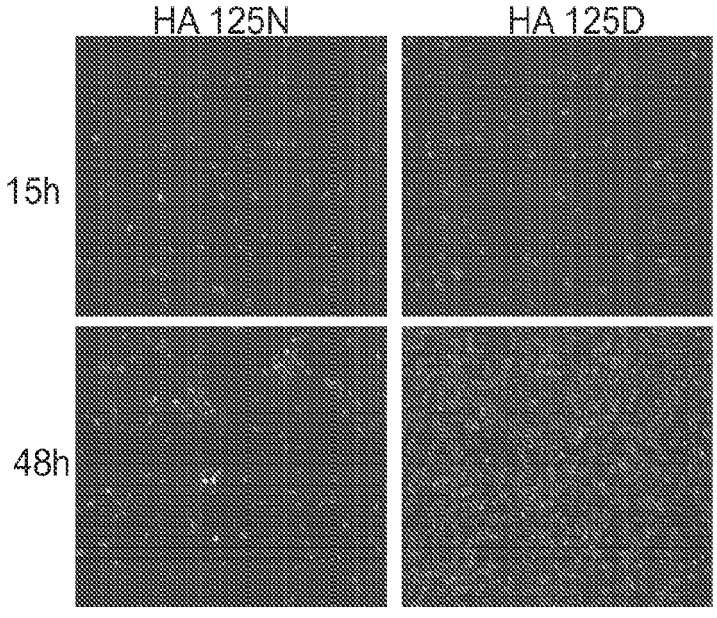


FIG. 6

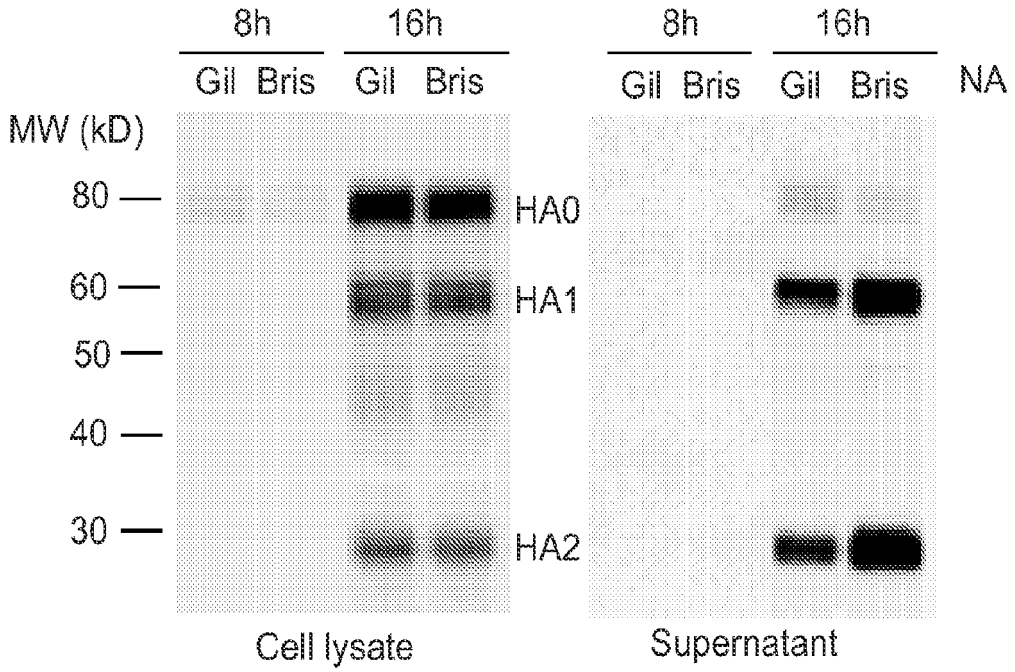

8h
16h
8h
16h
Gil Bris Gil Bris Gil Bris Gil Bris NA
MW (kD)
80
60
50
40
30
HA0
HA1
HA2
Cell lysate
Supernatant

FIG. 7A

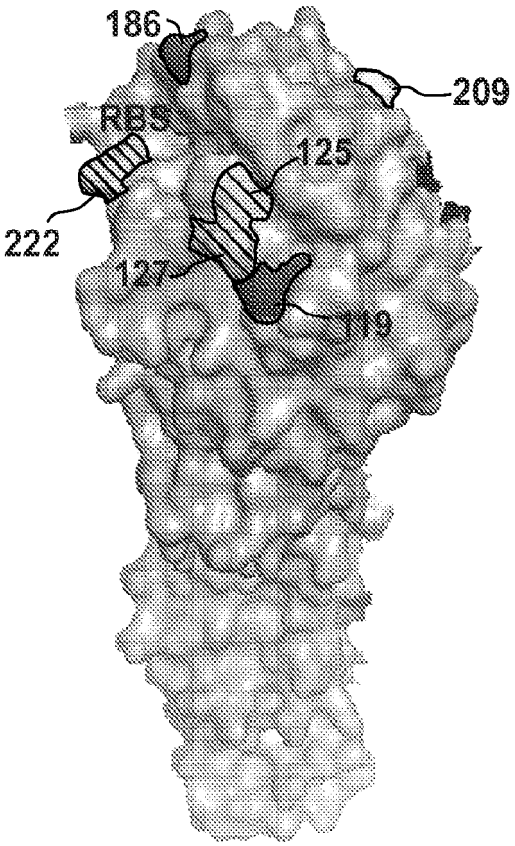


FIG. 7B

