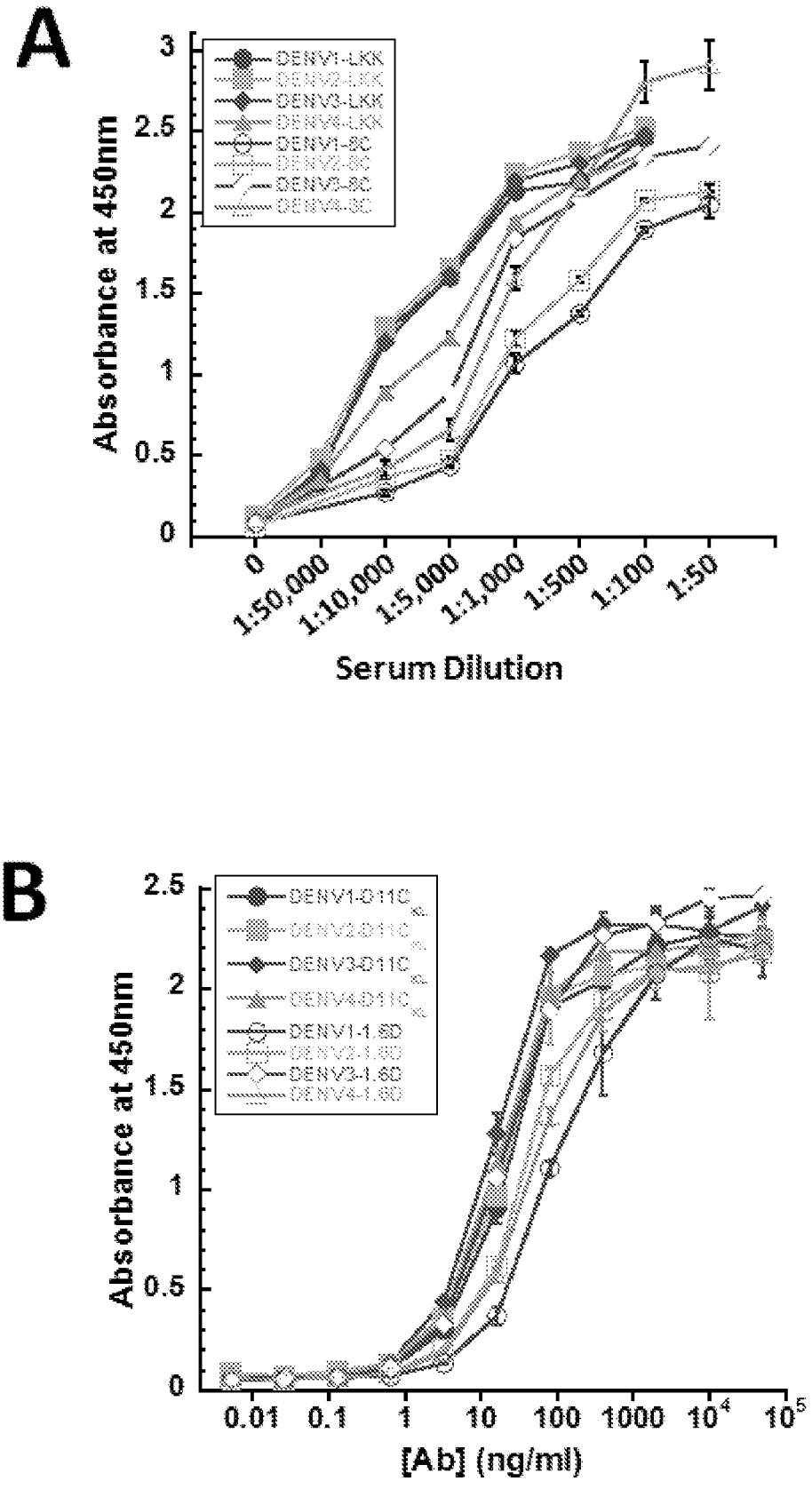

A
Absorbance at 450nm
Serum Dilution
0
1:50,000
1:10,000
1:5,000
1:1,000
1:500
1:100
1:50
B
Absorbance at 450nm
[Ab] (ng/ml)
0.01
0.1
1
10
100
1000

FIG. 1

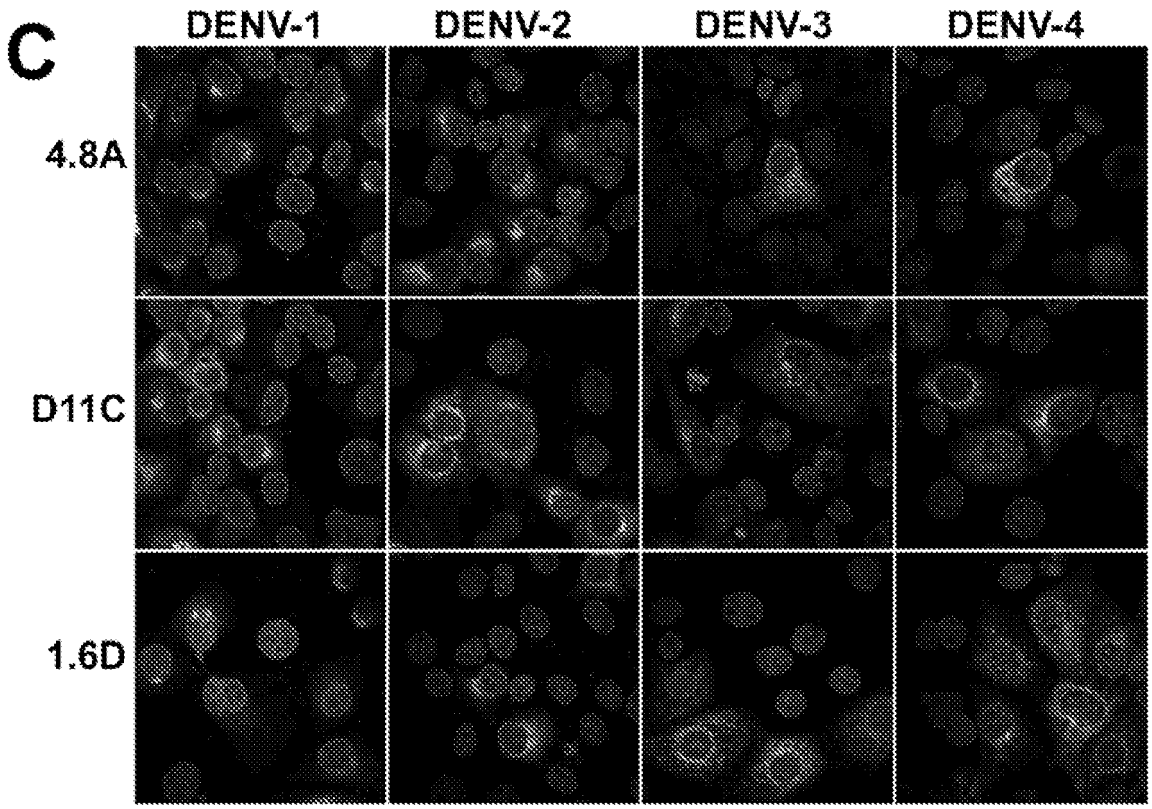


FIG. 2

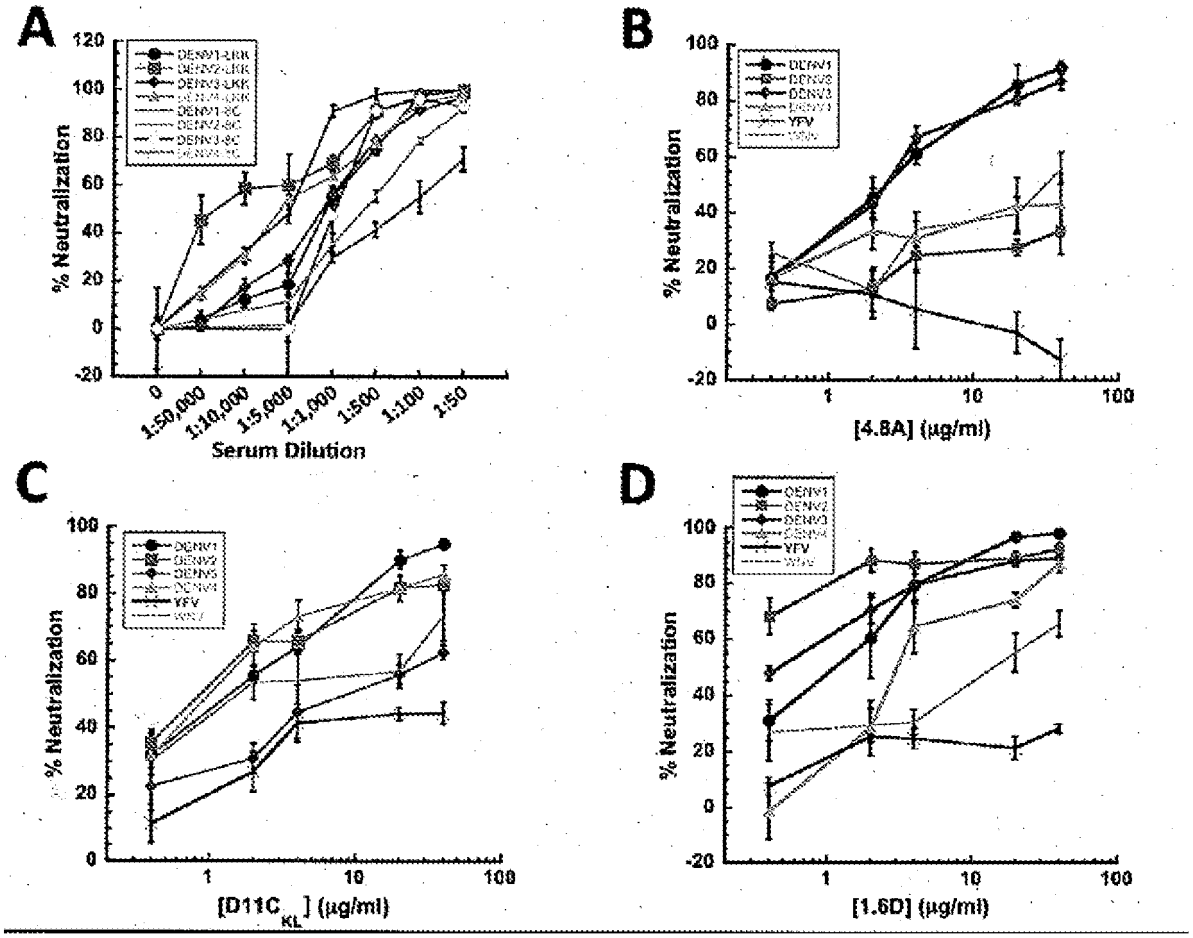

A
% Neutralization
Serum Dilution
0
1:50,000
1:10,000
1:5,000
1:1,000
1:500
1:100
1:50
B
% Neutralization
[4.8A] (µg/ml)
C
% Neutralization
[D11C KL] (µg/ml)
D
% Neutralization
[1.6D] (µg/ml)
YFV

FIG. 3

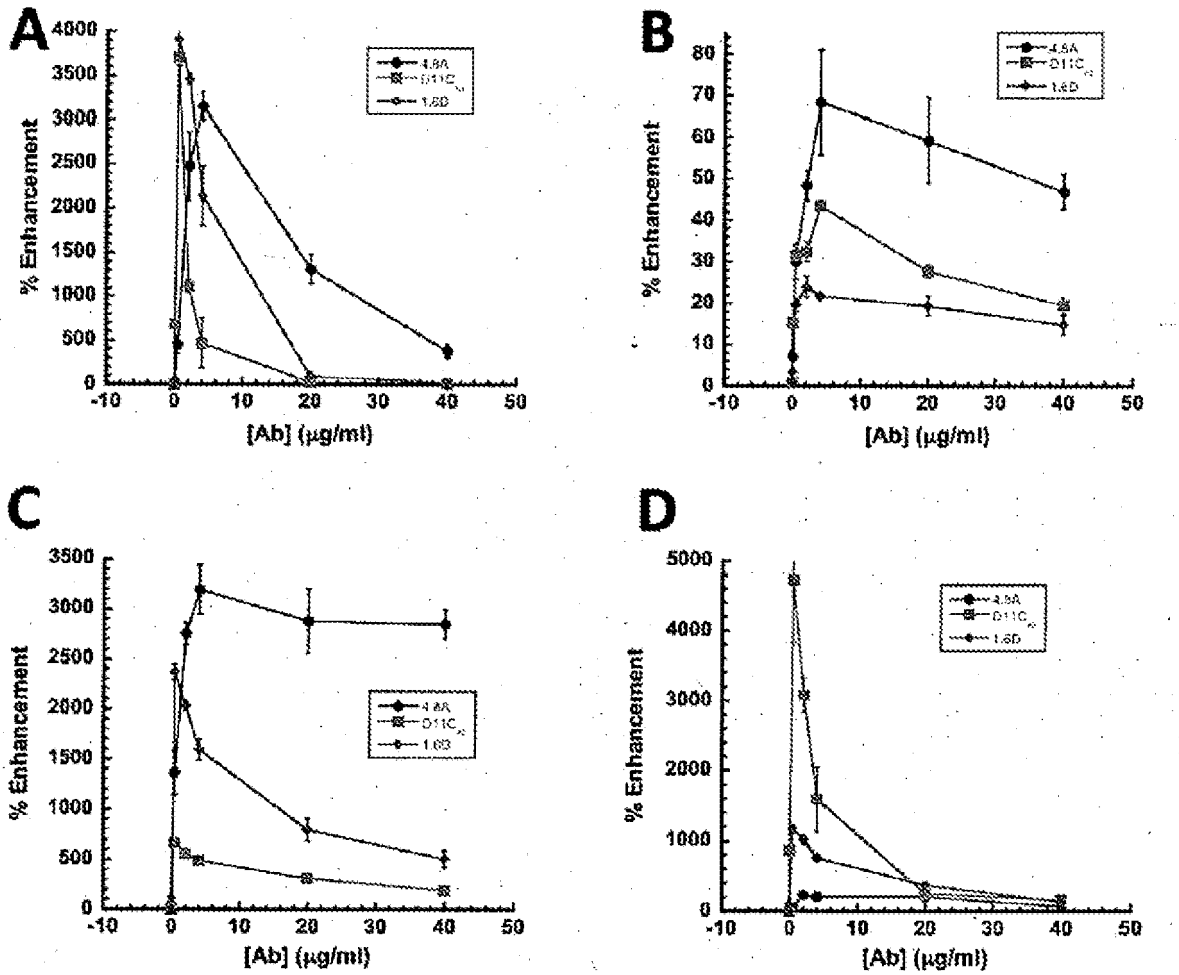


FIG. 4

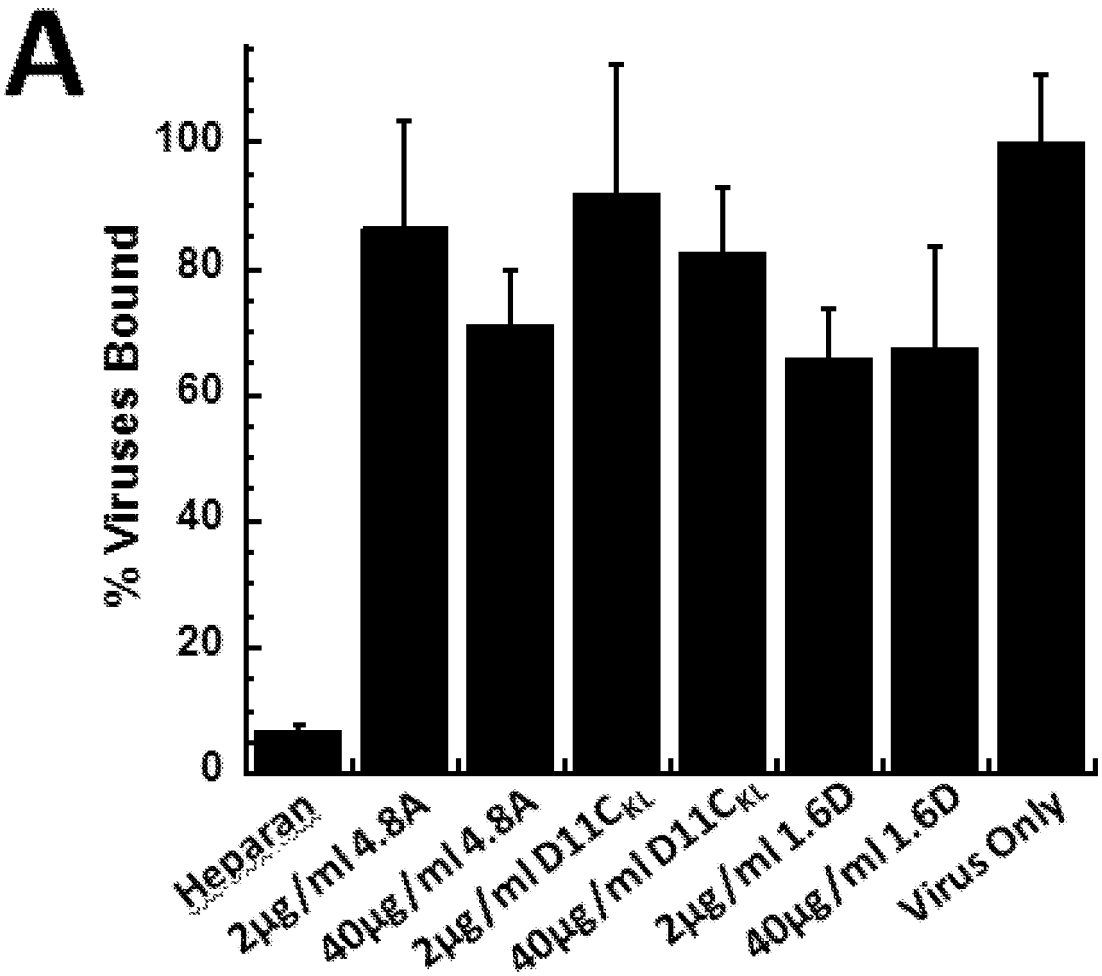

A
% Viruses Bound
0
20
40
60
80
100
Heparan
2µg/ml 4.8A
40µg/ml 4.8A
2µg/ml D11C$_{KL}$
40µg/ml D11C$_{KL}$
2µg/ml 1.6D
40µg/ml 1.6D
Virus Only

FIG. 5

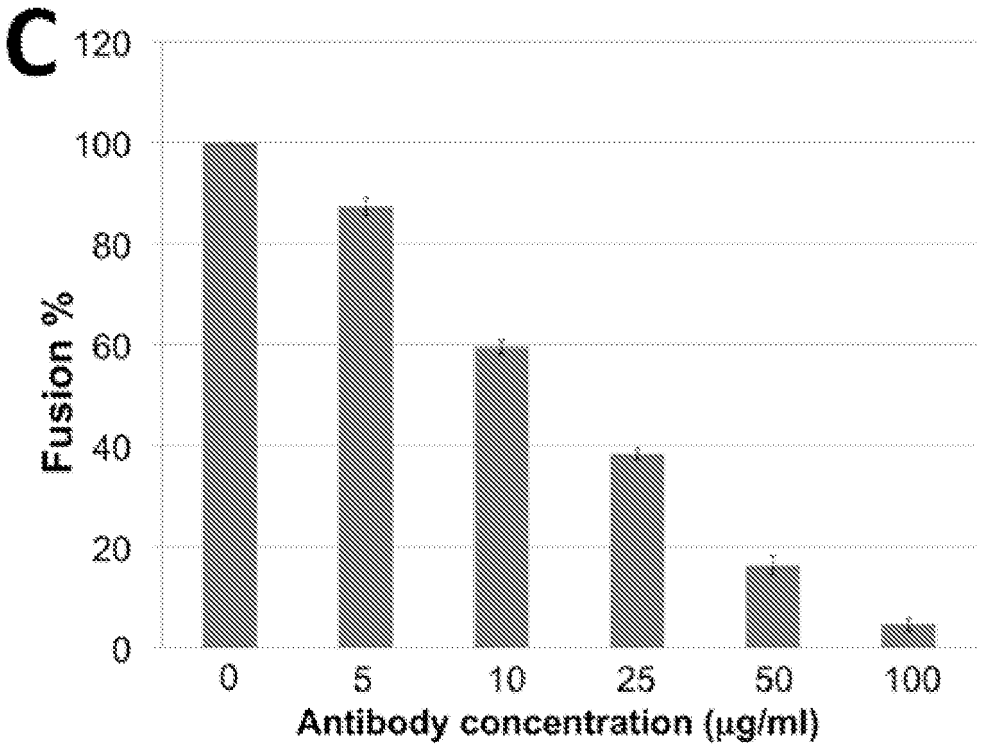

C
120
100
80
60
40
20
0
Fusion %
0
5
10
25
50
100
Antibody concentration (μg/ml)

FIG. 6

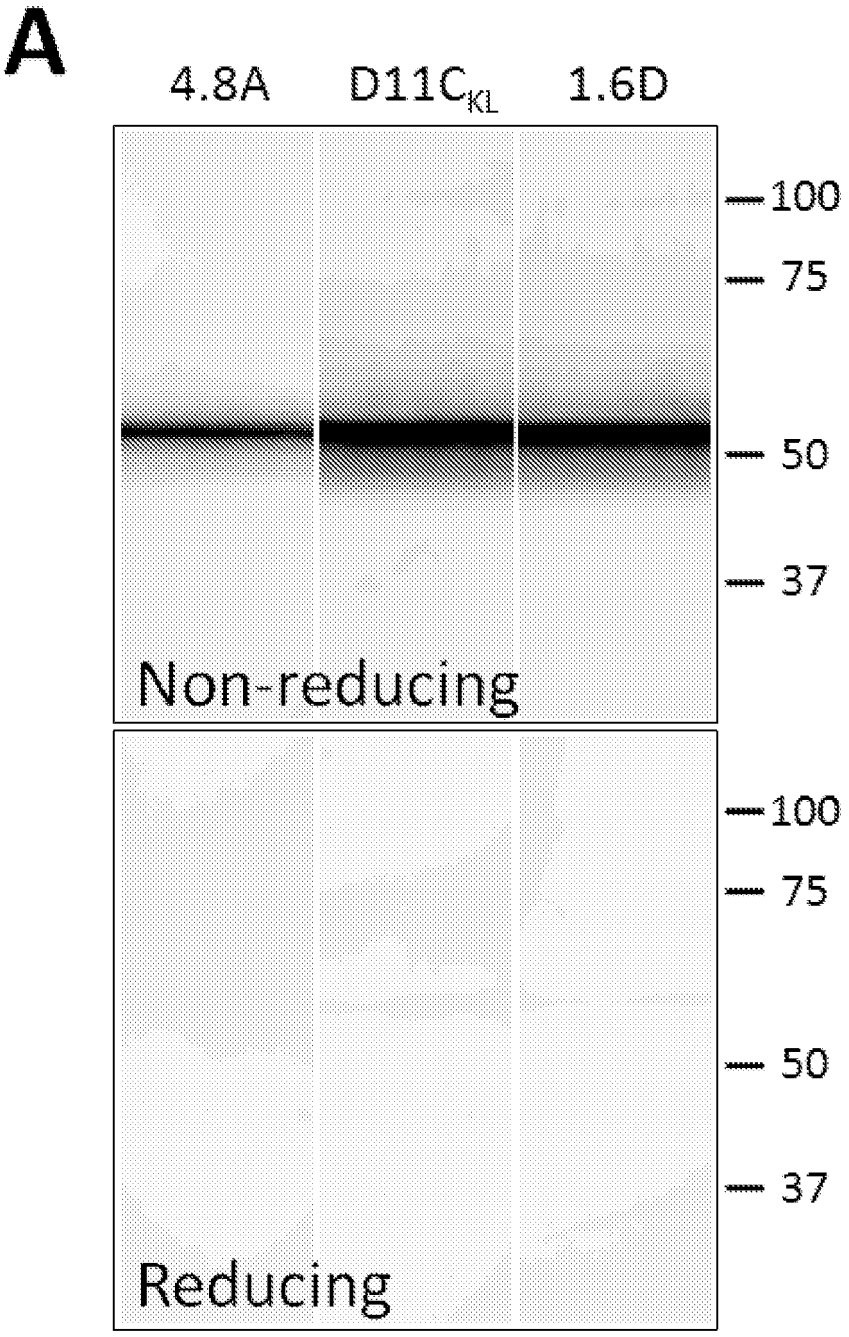

A
4.8A
D11C$_{KL}$
1.6D
100
75
50
37
Non-reducing
100
75
50
37
Reducing

FIG. 7

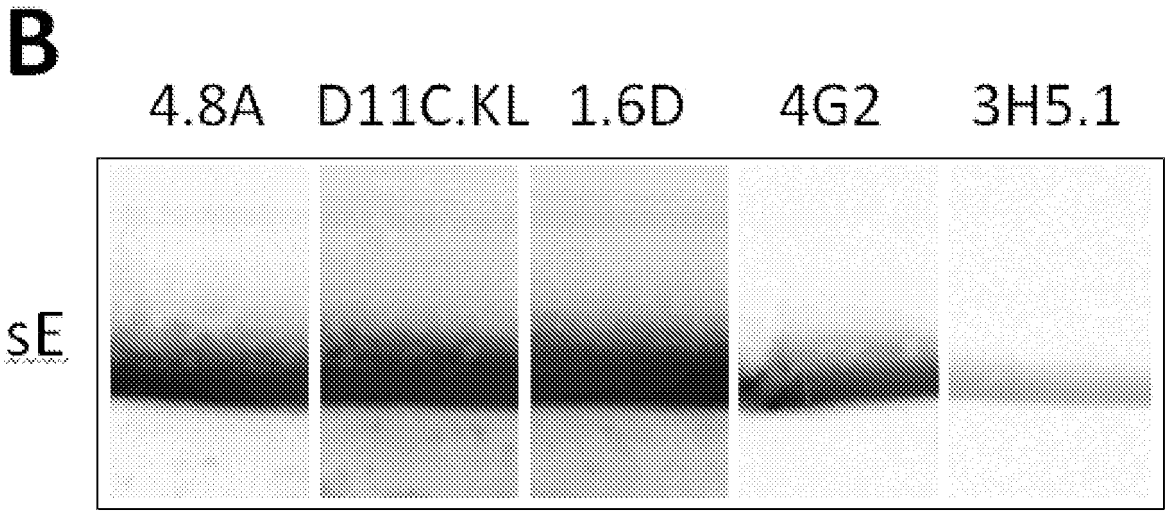


FIG. 8

	4.8A	D11C$_{KL}$	1.6D
DENV1	6.70175E-10	3.951E-10	2.75125E-10
DENV2	7.5382E-10	1.8205E-09	1.86987E-09
DENV3	1.43508E-09	3.293E-10	1.7884E-09
DENV4	1.15297E-09	4.7165E-10	1.619E-09

FIG. 9

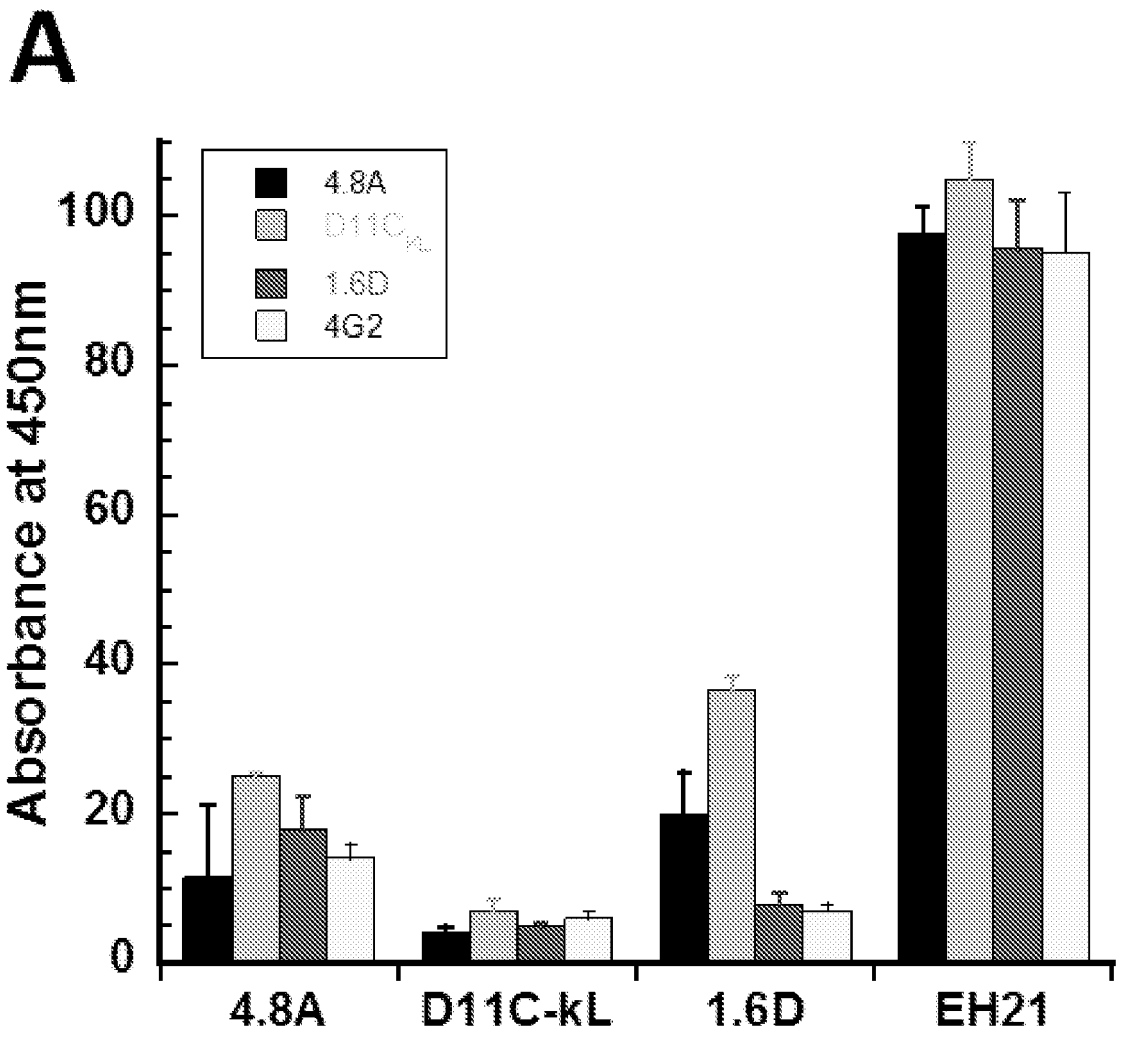

A
4.8A
D11C-kL
1.6D
4G2
Absorbance at 450nm
0
20
40
60
80
100
4.8A
D11C-kL
1.6D
EH21

FIG. 10

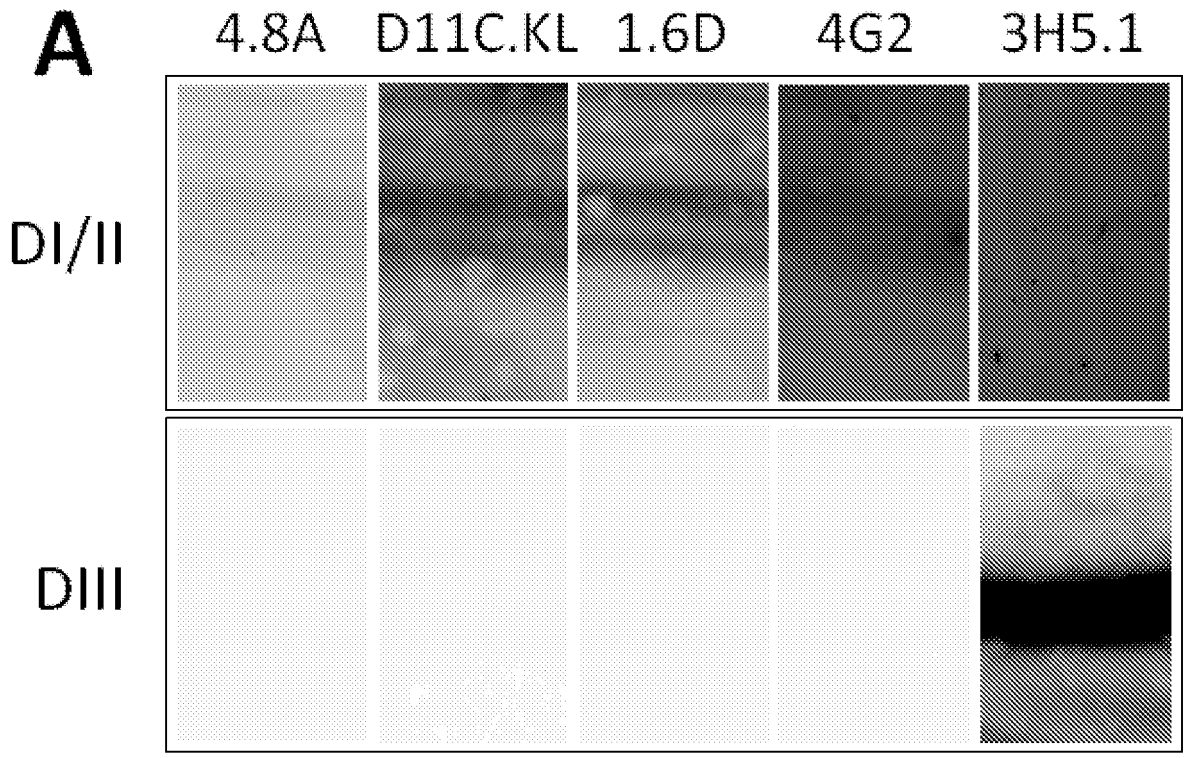


FIG. 11

B

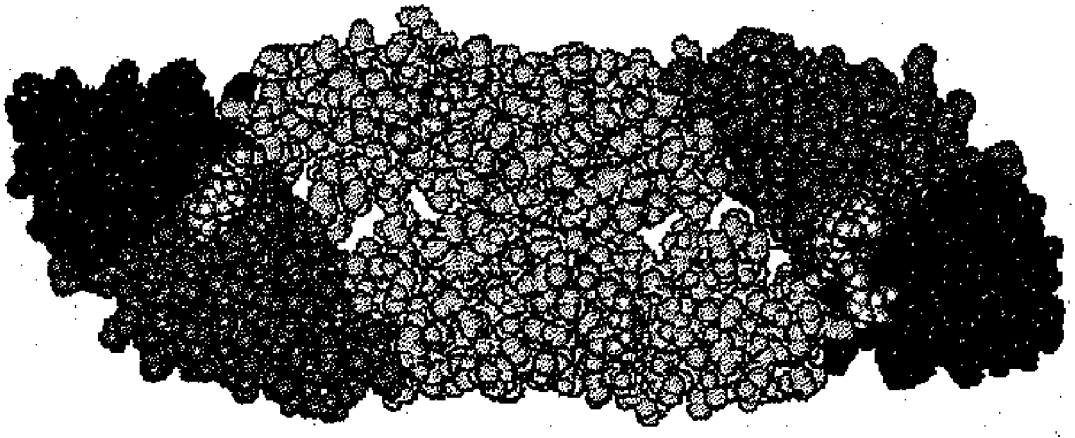


FIG. 12

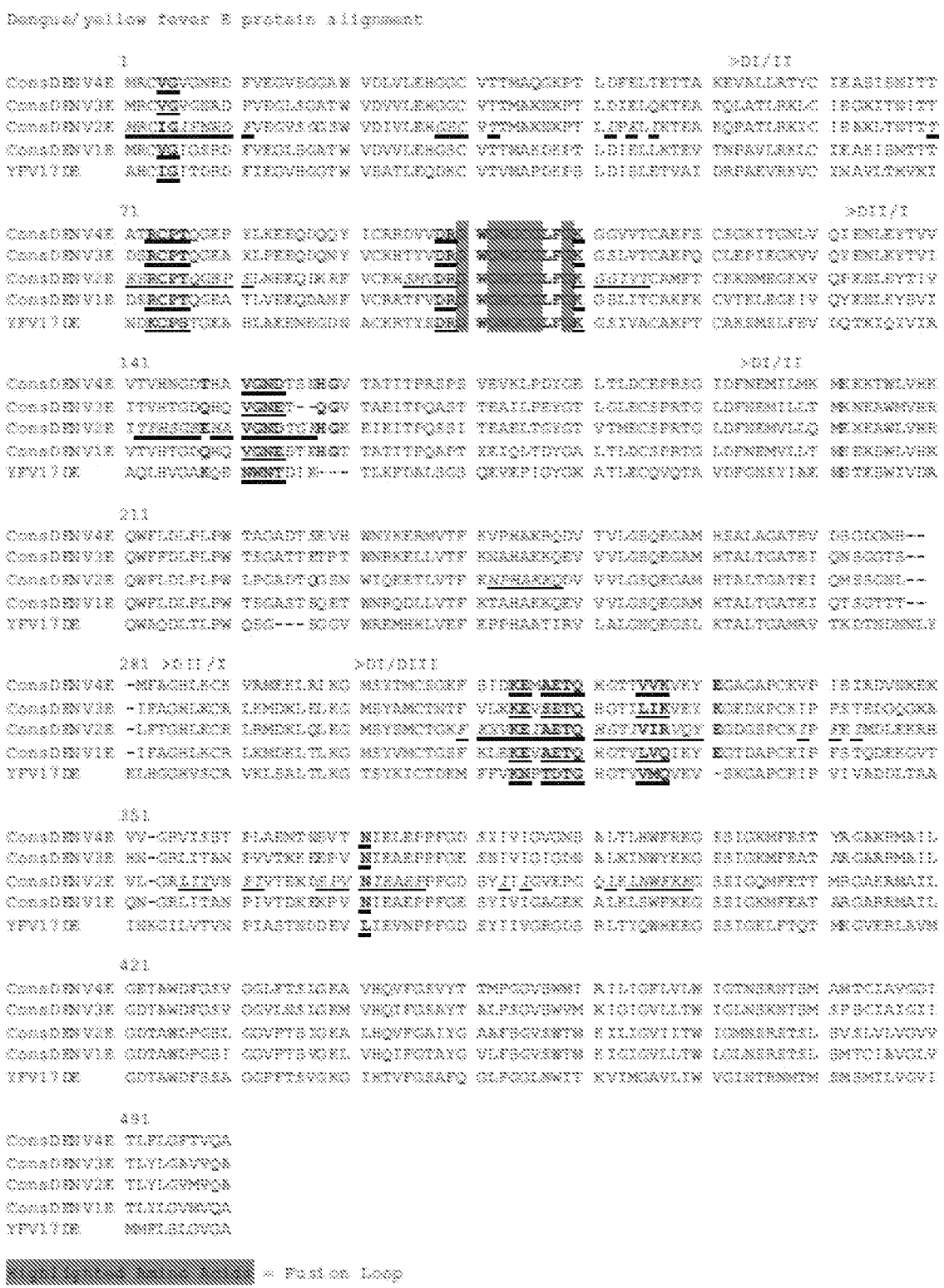

Dengue/yellow fever E protein alignment
= Fusion Loop
Bolded and Underlined Amino Acids = Within 5A of Fusion Loop
Italicized and Underlined Amino Acids = Within 14A of Fusion Loop (shown only for DENV2)
Bolded Amino Acids = Loss of binding position for 4.8A, DIICh1, and 1.6D
4.8A W101, L107, Q168
DIICh1 W101, Q187, K329
1.6D W101, F108, Q136

FIG. 13

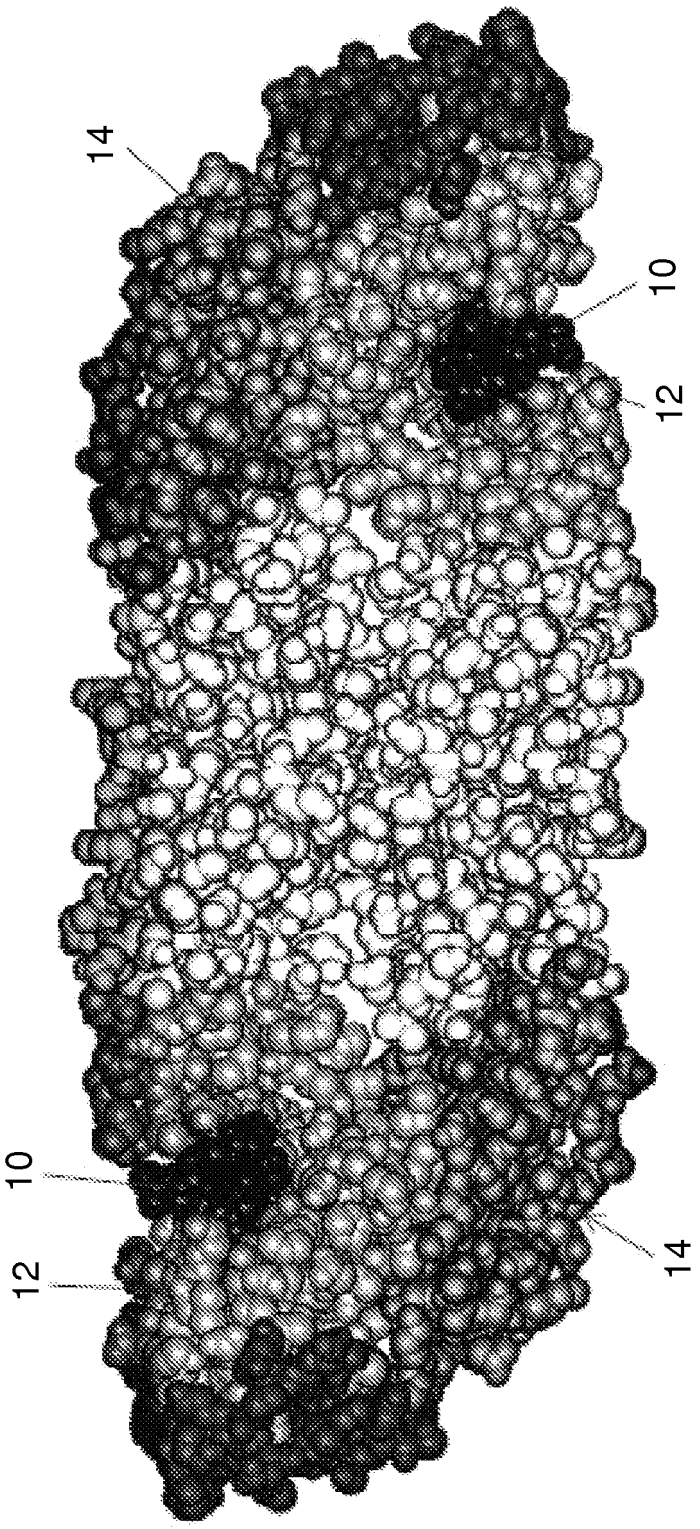


FIG. 14