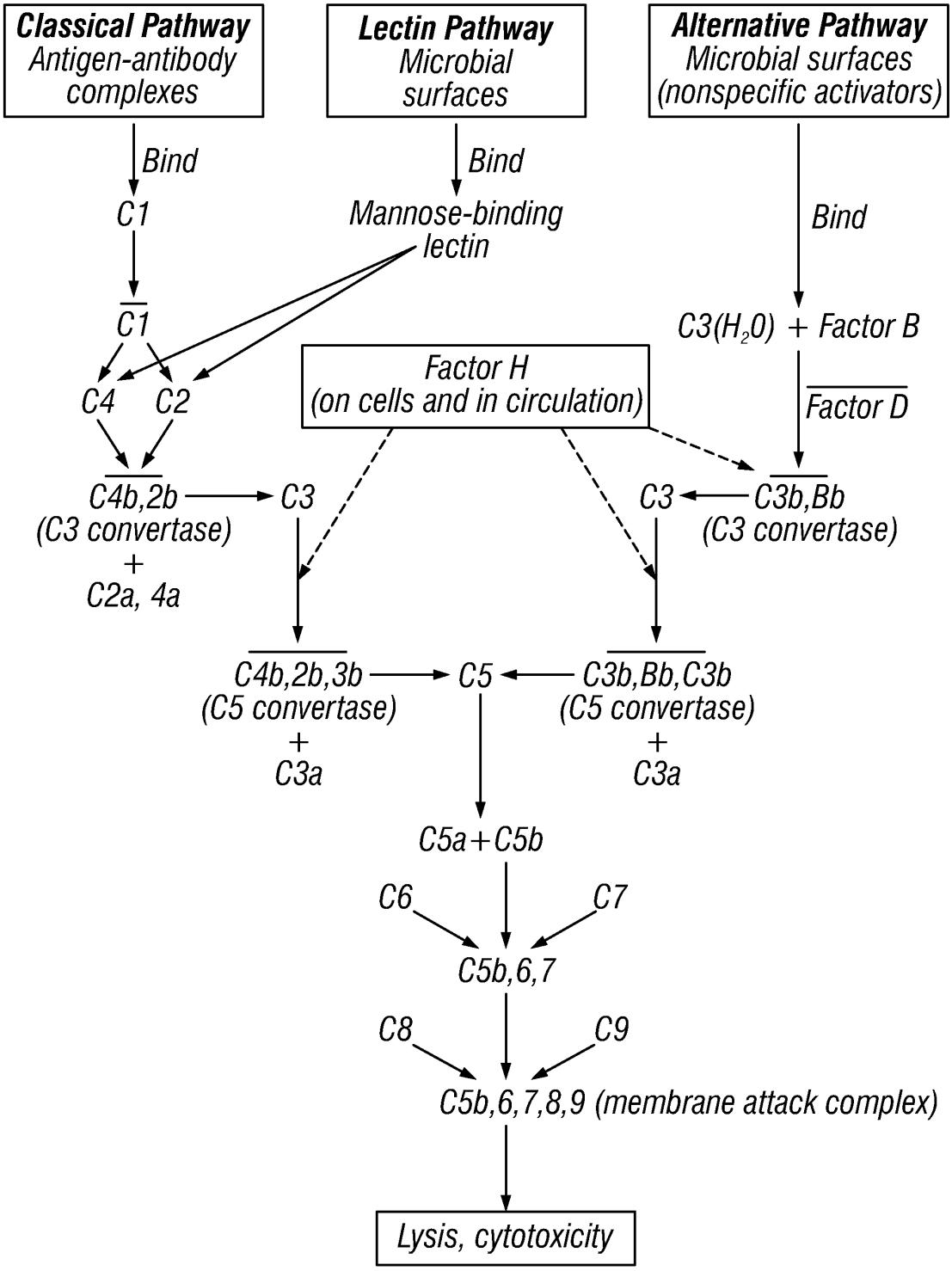

Classical Pathway
Antigen-antibody complexes
Lectin Pathway
Microbial surfaces
Alternative Pathway
Microbial surfaces (nonspecific activators)
Bind
Bind
Bind
C1
Mannose-binding lectin
C3(H2O) + Factor B
C1
Factor H
(on cells and in circulation)
Factor D
C4
C2
C4b,2b
(C3 convertase)
+
C2a, 4a
C3
C3
C3b,Bb
(C3 convertase)
C4b,2b,3b
(C5 convertase)
+
C3a
C5
C3b,Bb,C3b
(C5 convertase)
+
C3a
C5a+C5b
C6
C7
C5b,6,7
C8
C9
C5b,6,7,8,9 (membrane attack complex)
Lysis, cytotoxicity

FIG. 1

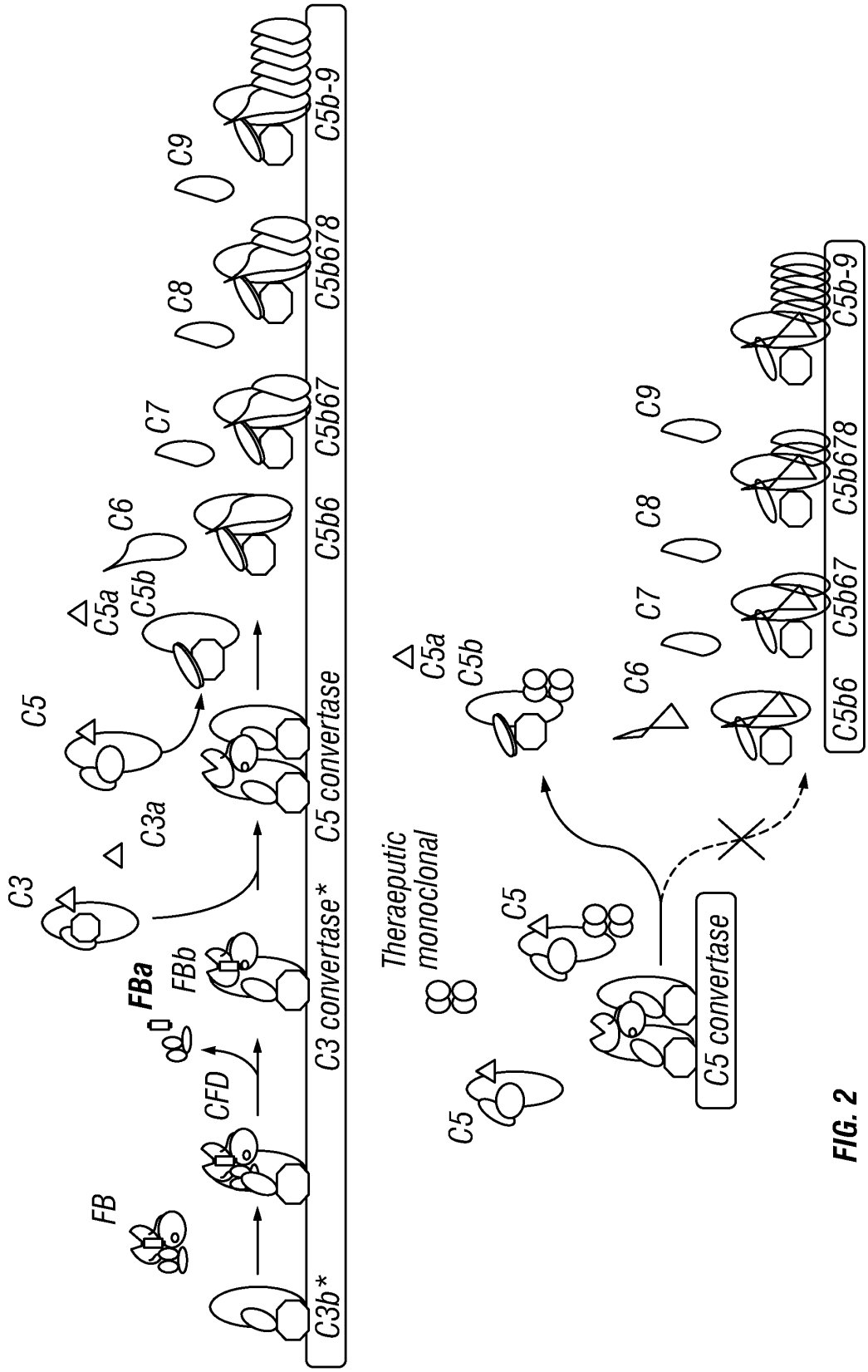

C3b*
C3 convertase*
C5 convertase
C5b6
C5b67
C5b678
C5b-9
FB
CFD
FBa
FBb
C3
C3a
C5
C5a
C5b
C6
C7
C8
C9
Theraeputic monoclonal

FIG. 2

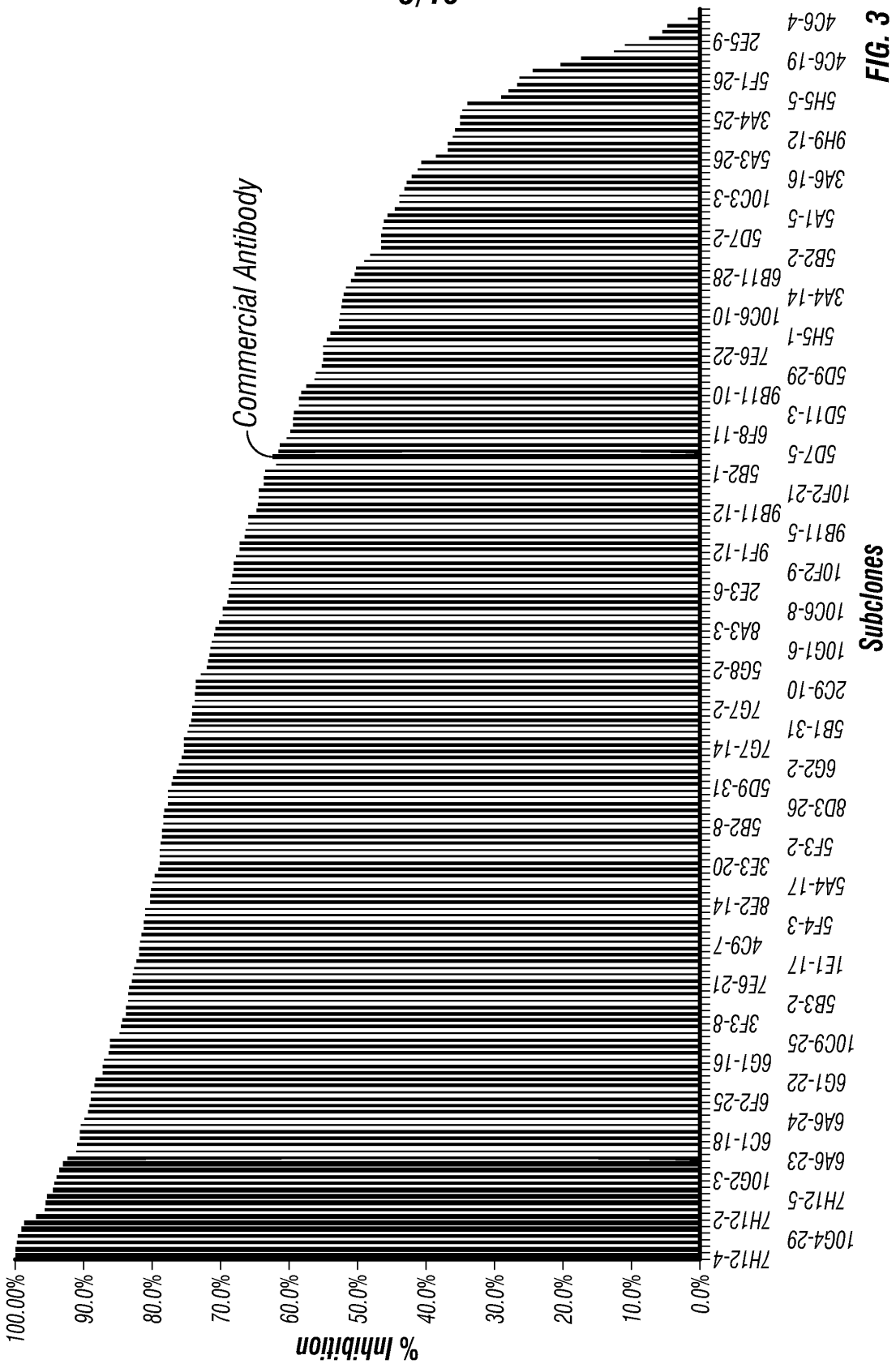

Commercial Antibody
% Inhibition
100.00%
90.0%
80.0%
70.0%
60.0%
50.0%
40.0%
30.0%
20.0%
10.0%
0.0%
Subclones
7H12-4
10G4-29
7H12-2
7H12-5
10G2-3
6A6-23
6C1-18
6A6-24
6F2-25
6G1-22
6G1-16
10C9-25
3F3-8
5B3-2
7E6-21
1E1-17
4C9-7
5F4-3
8E2-14
5A4-17
3E3-20
5F3-2
5B2-8
8D3-26
5D9-31
6G2-2
7G7-14
5B1-31
7G7-2
2C9-10
5G8-2
10G1-6
8A3-3
10C6-8
2E3-6
10F2-9
9F1-12
9B11-5
9B11-12
10F2-21
5B2-1
5D7-5
6F8-11
5D11-3
9B11-10
5D9-29
7E6-22
5H5-1
10C6-10
3A4-14
6B11-28
5B2-2
5D7-2
5A1-5
10C3-3
3A6-16
5A3-26
9H9-12
3A4-25
5H5-5
5F1-26
4C6-19
2E5-9
4C6-4

FIG. 3

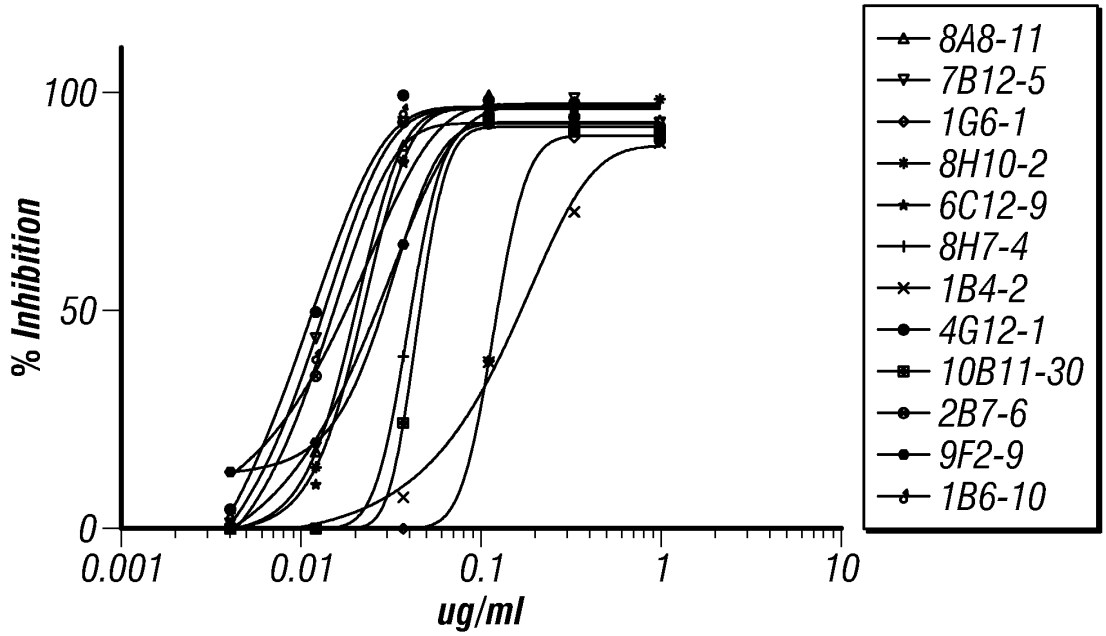

100
50
0
% Inhibition
0.001
0.01
0.1
1
10
ug/ml
8A8-11
7B12-5
1G6-1
8H10-2
6C12-9
8H7-4
1B4-2
4G12-1
10B11-30
2B7-6
9F2-9
1B6-10

FIG. 4A

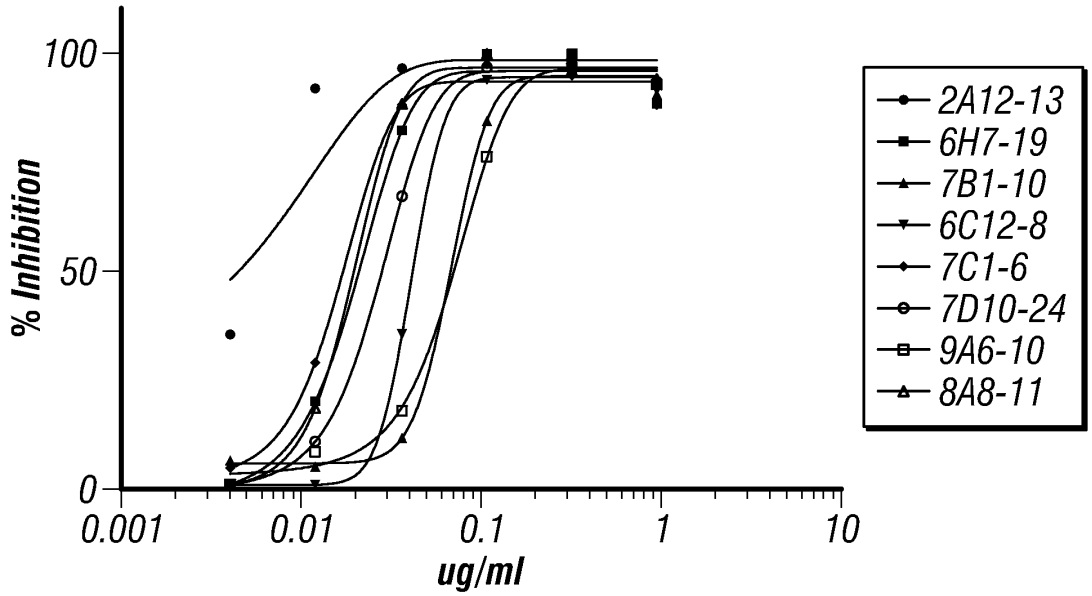

100
50
0
% Inhibition
0.001
0.01
0.1
1
10
ug/ml
2A12-13
6H7-19
7B1-10
6C12-8
7C1-6
7D10-24
9A6-10
8A8-11

FIG. 4B

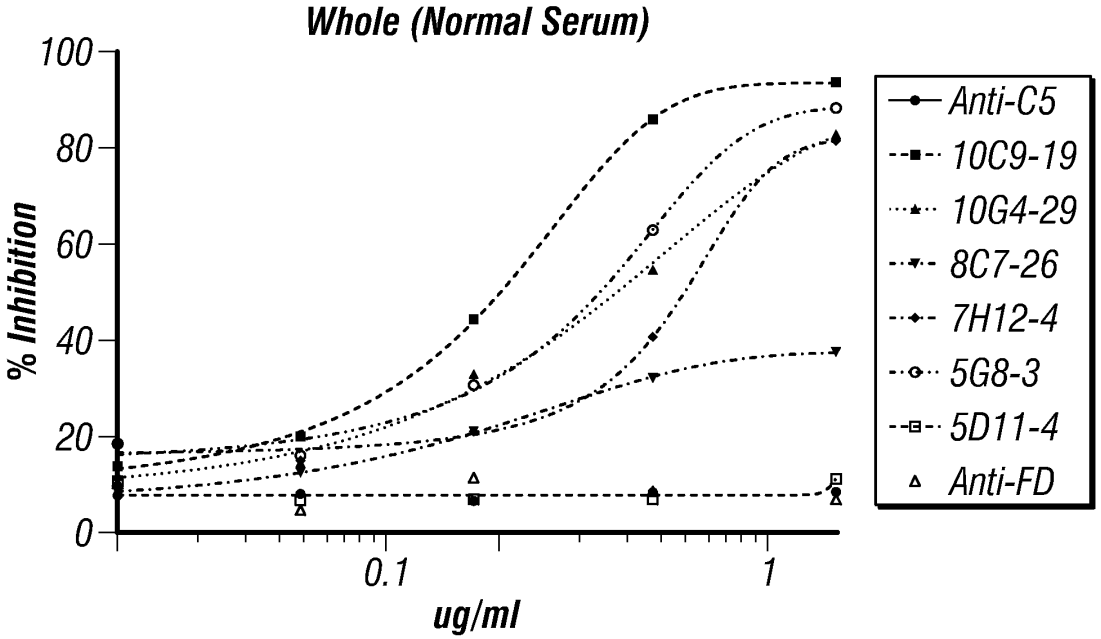

Whole (Normal Serum)
100
80
60
40
20
0
% Inhibition
0.1
1
ug/ml
Anti-C5
10C9-19
10G4-29
8C7-26
7H12-4
5G8-3
5D11-4
Anti-FD

FIG. 5A

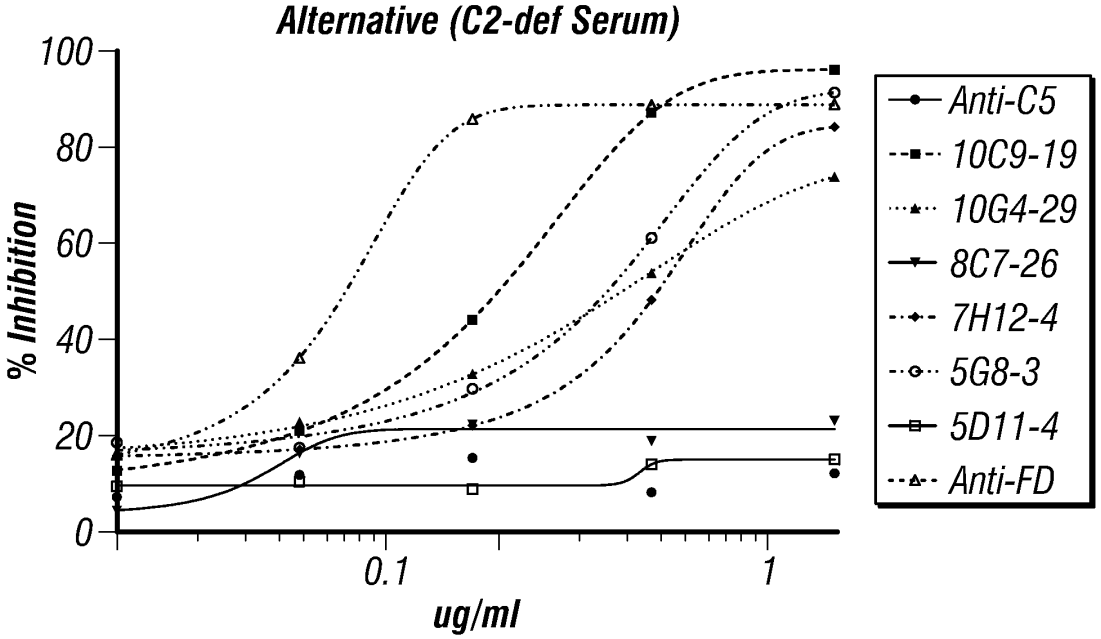

Alternative (C2-def Serum)
100
80
60
40
20
0
% Inhibition
0.1
1
ug/ml
Anti-C5
10C9-19
10G4-29
8C7-26
7H12-4
5G8-3
5D11-4
Anti-FD

FIG. 5B

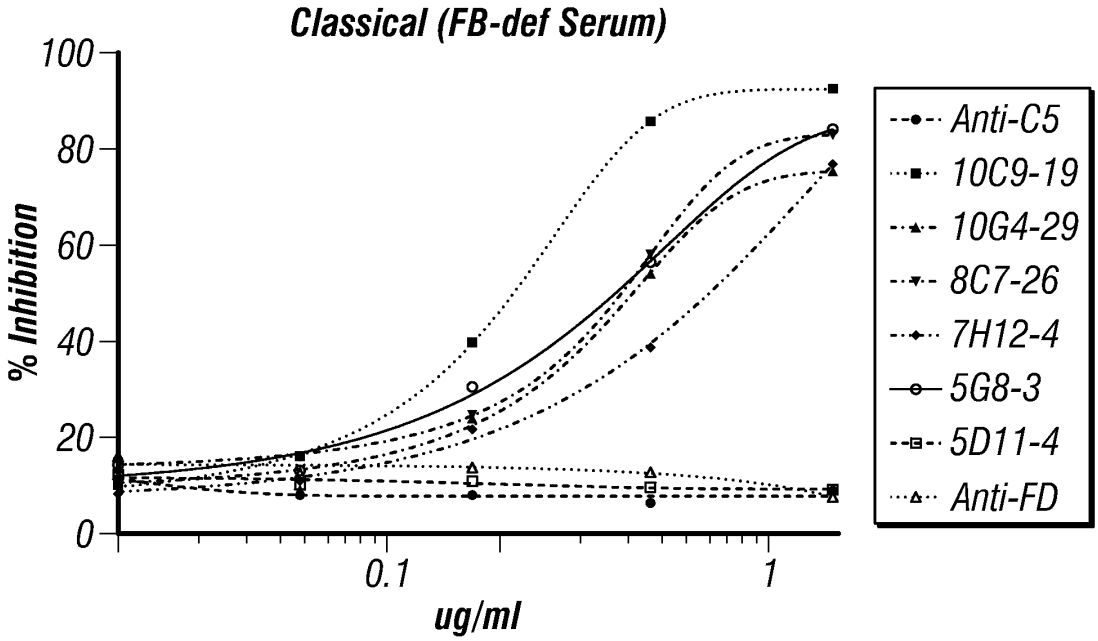

Classical (FB-def Serum)
100
80
60
40
20
0
% Inhibition
0.1
1
ug/ml
Anti-C5
10C9-19
10G4-29
8C7-26
7H12-4
5G8-3
5D11-4
Anti-FD

FIG. 5C

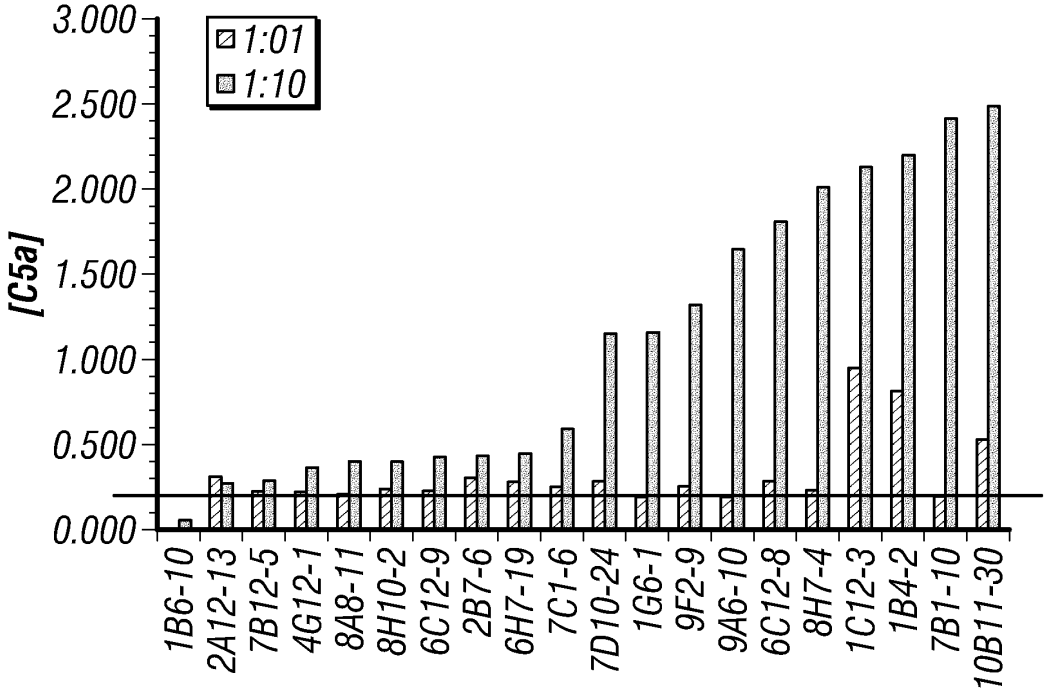

3.000
2.500
2.000
1.500
1.000
0.500
0.000
[C5a]
1:01
1:10
1B6-10
2A12-13
7B12-5
4G12-1
8A8-11
8H10-2
6C12-9
2B7-6
6H7-19
7C1-6
7D10-24
1G6-1
9F2-9
9A6-10
6C12-8
8H7-4
1C12-3
1B4-2
7B1-10
10B11-30

FIG. 6A

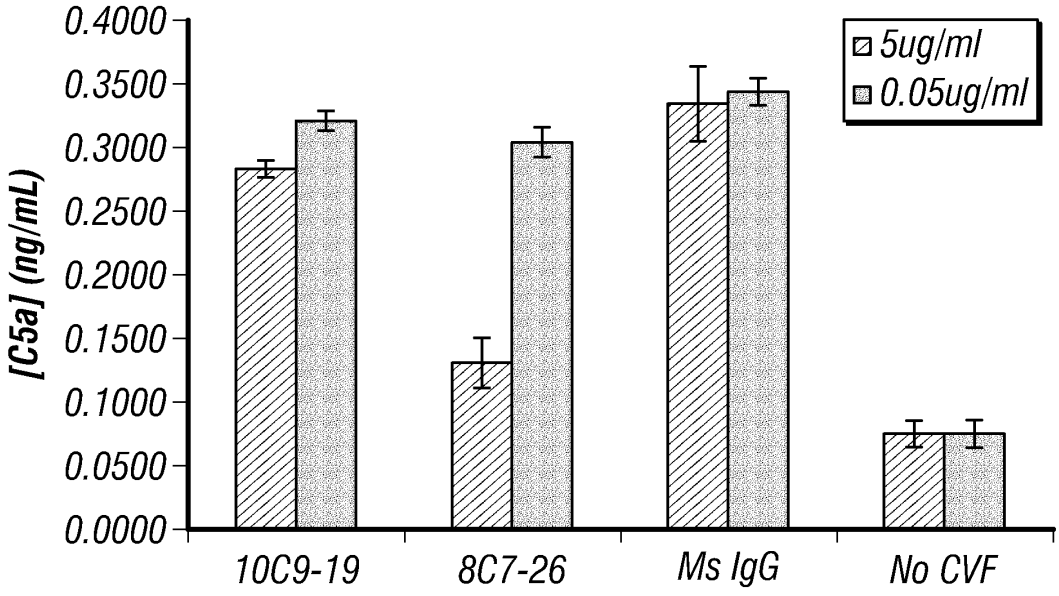

0.4000
0.3500
0.3000
0.2500
0.2000
0.1500
0.1000
0.0500
0.0000
[C5a] (ng/mL)
5ug/ml
0.05ug/ml
10C9-19
8C7-26
Ms IgG
No CVF

FIG. 6B

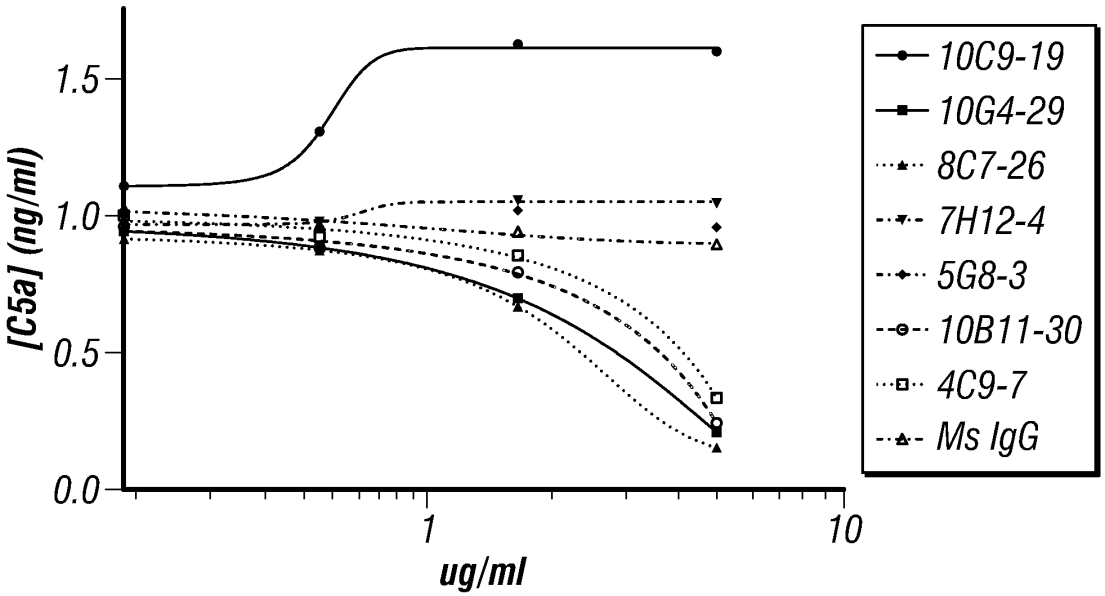

1.5
1.0
0.5
0.0
[C5a] (ng/ml)
1
10
ug/ml
10C9-19
10G4-29
8C7-26
7H12-4
5G8-3
10B11-30
4C9-7
Ms IgG

FIG. 6C

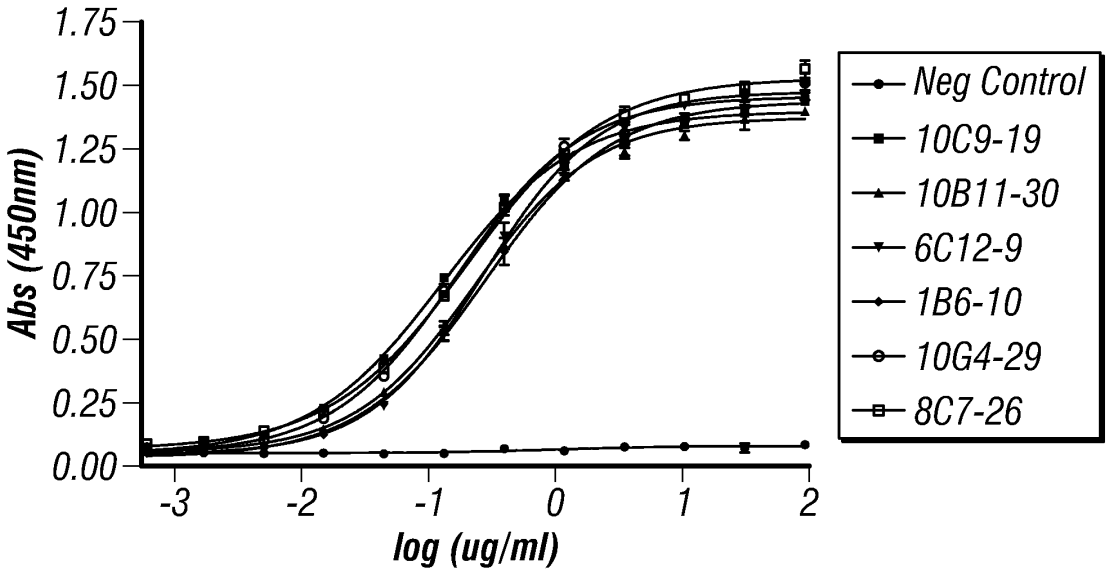

1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Abs (450nm)
-3
-2
-1
0
1
2
log (ug/ml)
Neg Control
10C9-19
10B11-30
6C12-9
1B6-10
10G4-29
8C7-26

FIG. 7

| Clone ID | Kd | K[on] | K[off] | r Squared |
|---|---|---|---|---|
| 10C9-19 | 1.444E-12 | 3.84E+05 | 5.55E-07 | 0.993054 |
| 1B6-10H11 | 1.626E-10 | 1.78E+05 | 2.89E-05 | 0.921366 |
| 2A12-13H10 | 5.591E-11 | 1.56E+05 | 8.69E-06 | 0.984873 |
| 4G12-1D9 | 9.286E-11 | 1.85E+05 | 1.72E-05 | 0.967668 |
| 6C12-8C10 | 5.427E-11 | 1.12E+05 | 6.05E-06 | 0.989999 |
| 6C12-9H9 | 6.505E-11 | 1.51E+05 | 9.82E-06 | 0.973618 |
| 6H7-19D11 | 4.021E-11 | 1.70E+05 | 6.85E-06 | 0.96237 |
| 7B1-10H9 | 2.352E-10 | 4.05E+05 | 9.53E-05 | 0.929208 |
| 7B12-5H5 | 2.626E-11 | 9.45E+04 | 2.48E-06 | 0.975405 |
| 7C1-6C7 | 1.463E-11 | 1.38E+05 | 2.02E-06 | 0.958707 |
| 8A8-11F9 | 1.052E-09 | 3.47E+04 | 3.65E-05 | 0.976231 |
| 8H10-2D9 | 2.554E-10 | 2.88E+05 | 7.36E-05 | 0.97153 |
| 10B11-30H9 | 6.891E-11 | 3.05E+05 | 2.10E-05 | 0.975237 |

FIG. 8

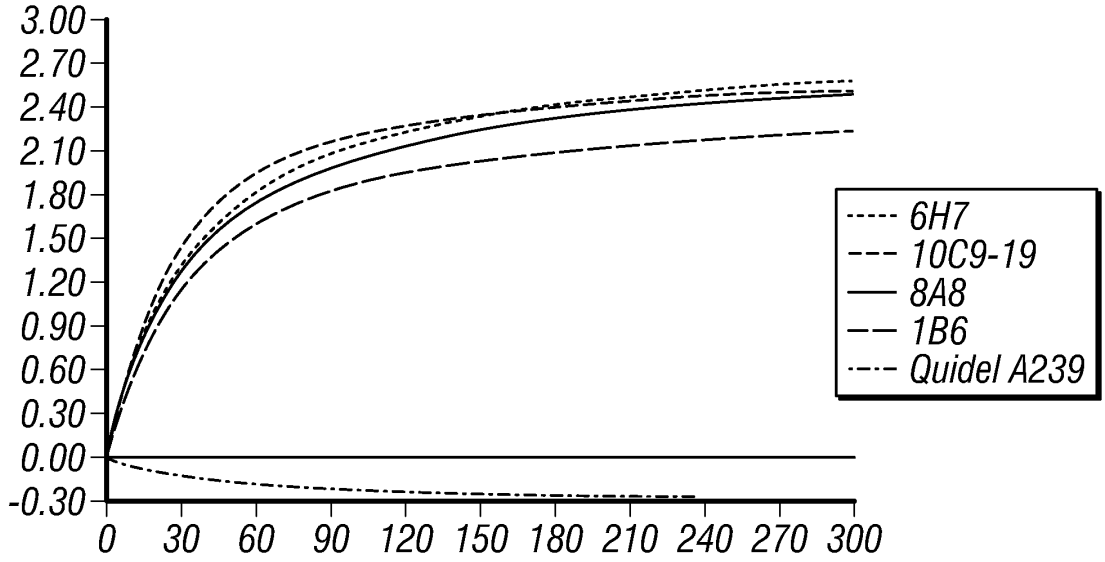



FIG. 9

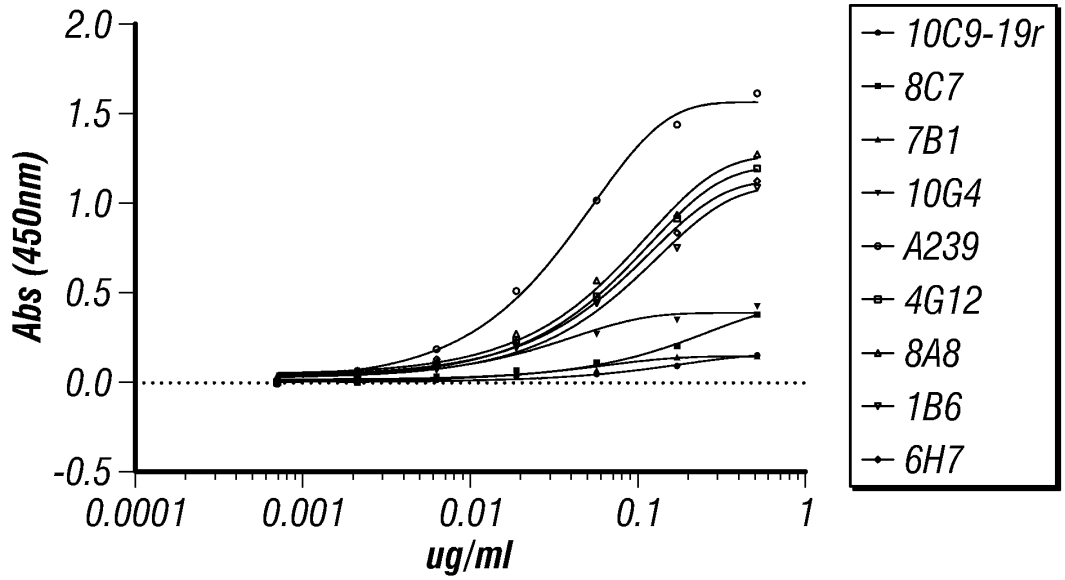
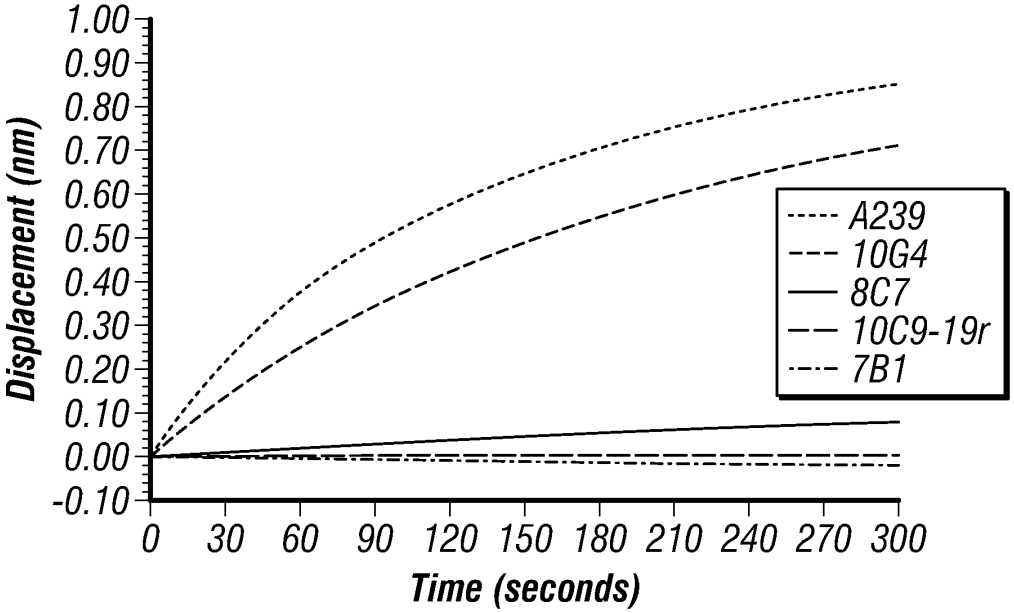
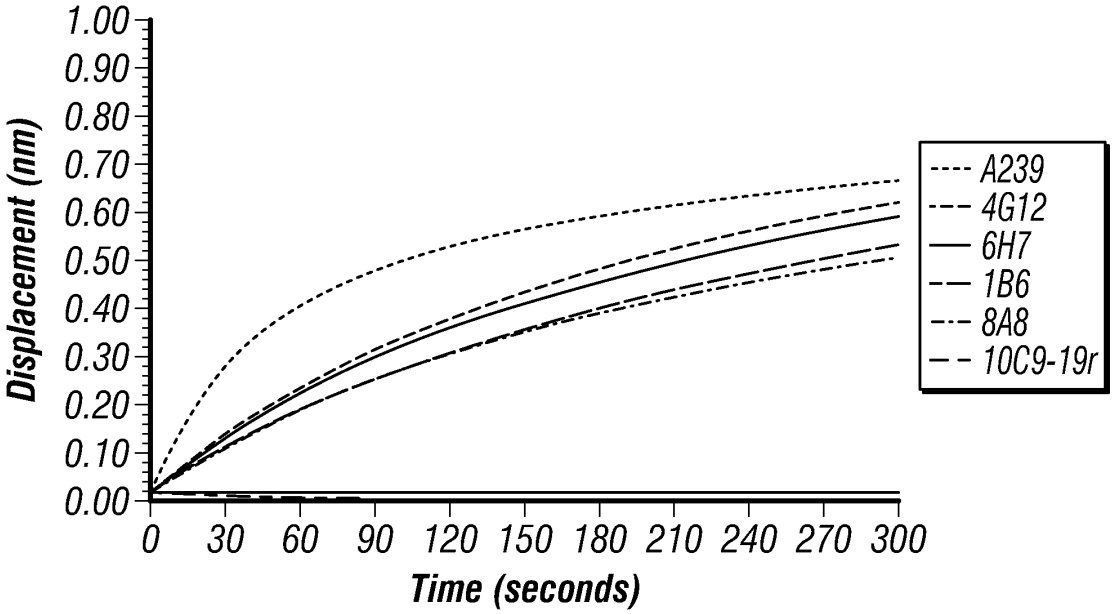



FIG. 10




| Clone | Displacement @ 300s. |
|---|---|
| 10G4 | 0.72 |
| 7B1 | -0.02 |
| 8C7 | 0.08 |
| 10C9-19r | 0.01 |
| A239 | 0.86 |

FIG. 11A




| Clone | Displacement @ 300s. |
|---|---|
| 1B6 | 0.52 |
| 4G12 | 0.61 |
| 6H7 | 0.58 |
| 8A8 | 0.49 |
| 10C9-19r | -0.02 |
| A239 | 0.67 |

FIG. 11B

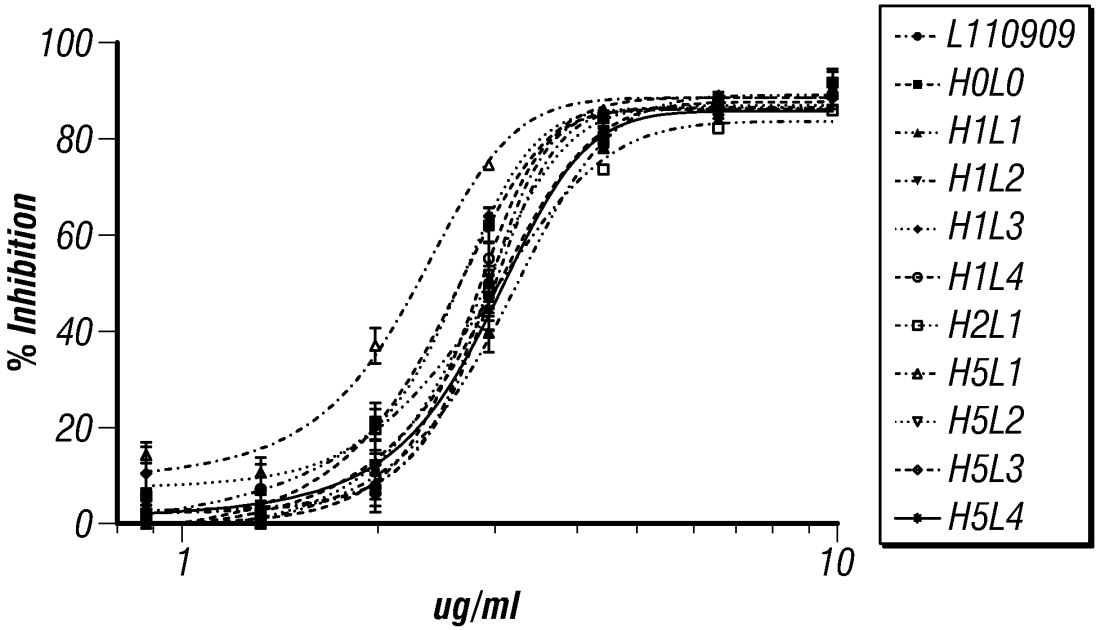



FIG. 12A

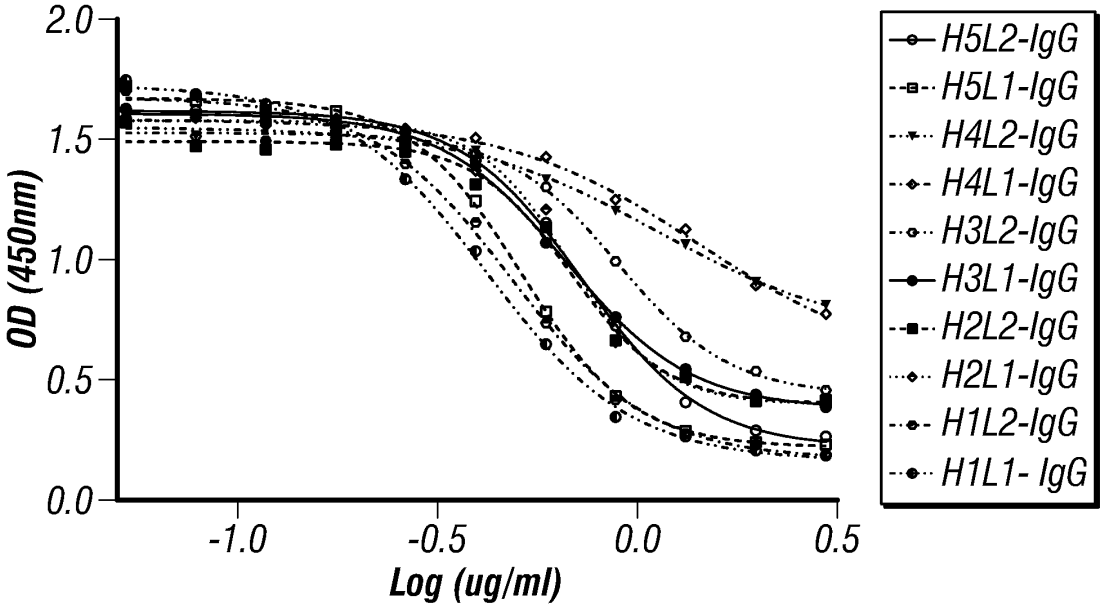



FIG. 12B

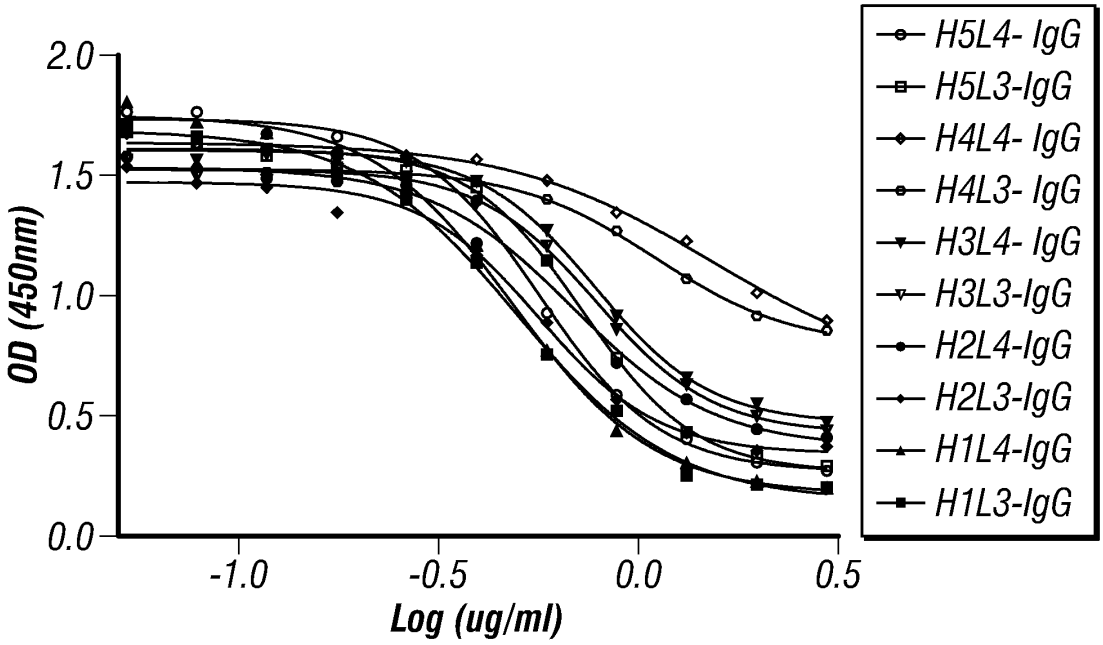



FIG. 12C

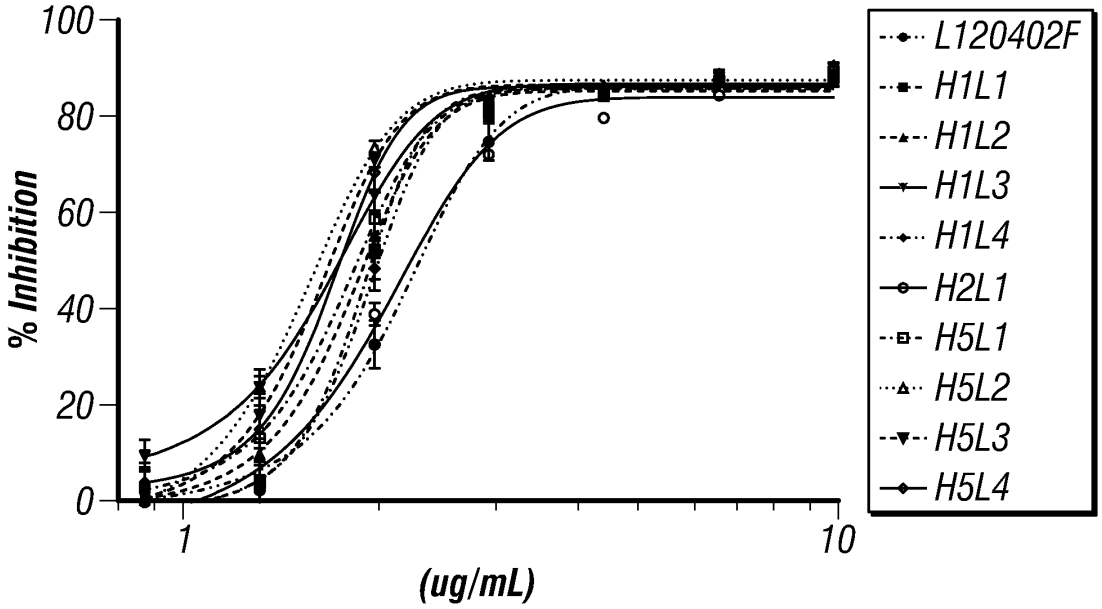



FIG. 13A

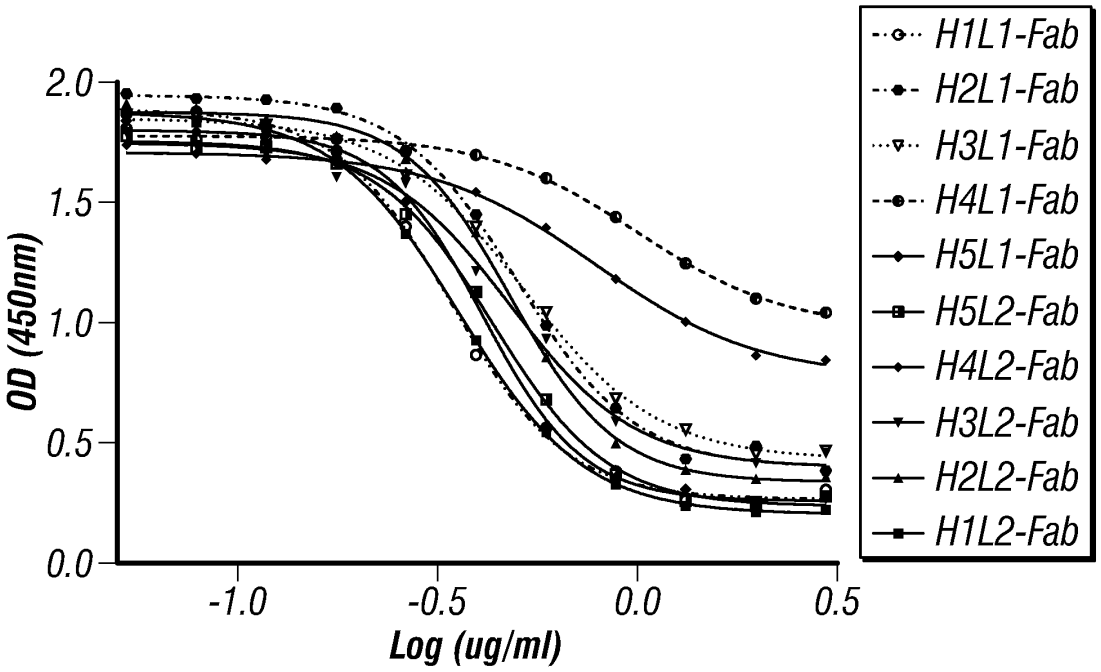



FIG. 13B

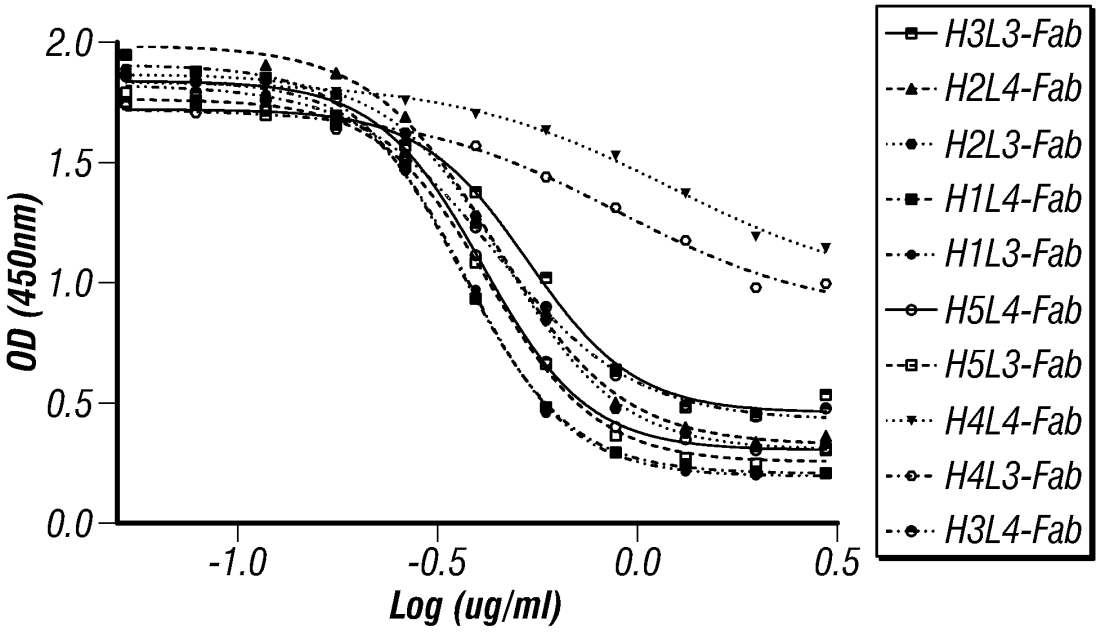
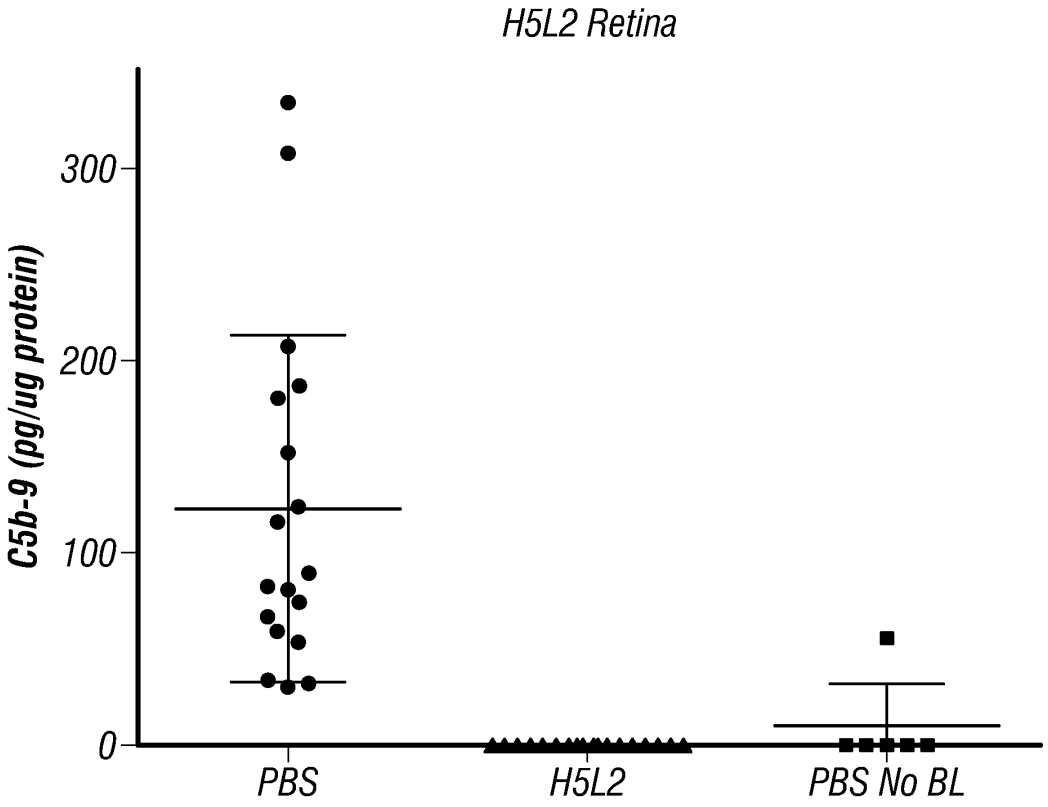
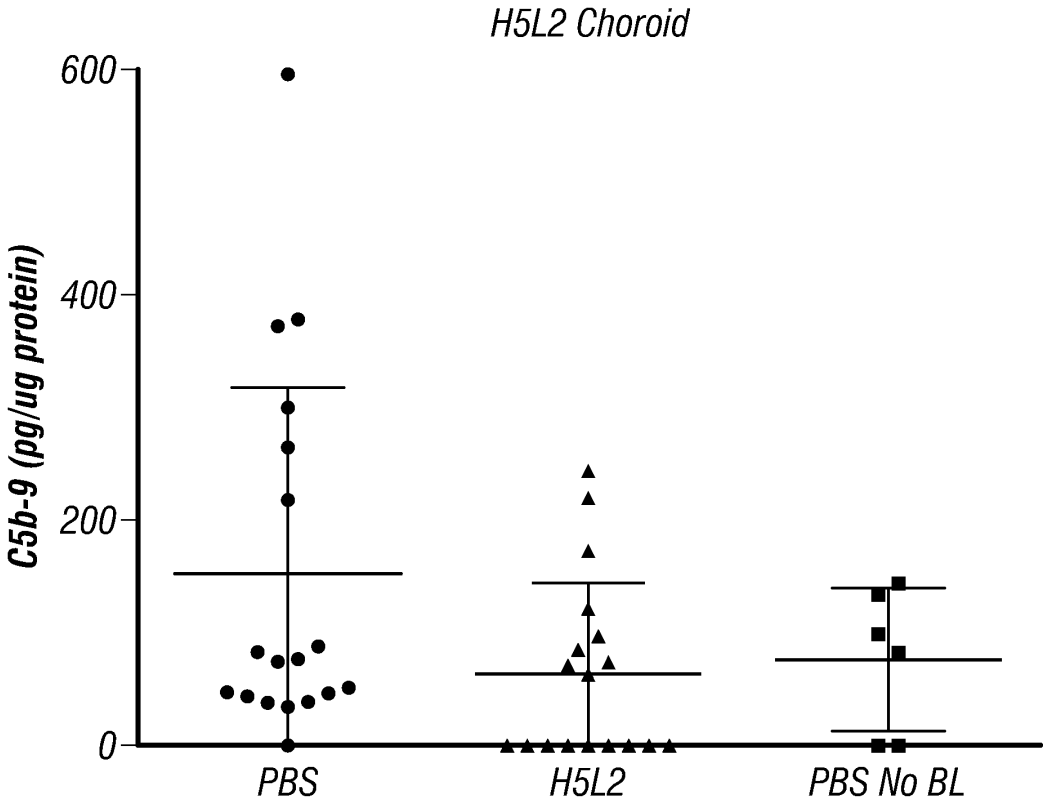



FIG. 13C




| | Retina | | |
|---|---|---|---|
| N | 18.00 | 18.00 | 6.00 |
| Average | 122.88 | 0.00 | 4.15 |

FIG. 14A




| | Choroid | | |
|---|---|---|---|
| N | 18.00 | 18.00 | 18.00 |
| Average | 152.98 | 63.78 | 64.68 |

FIG. 14B