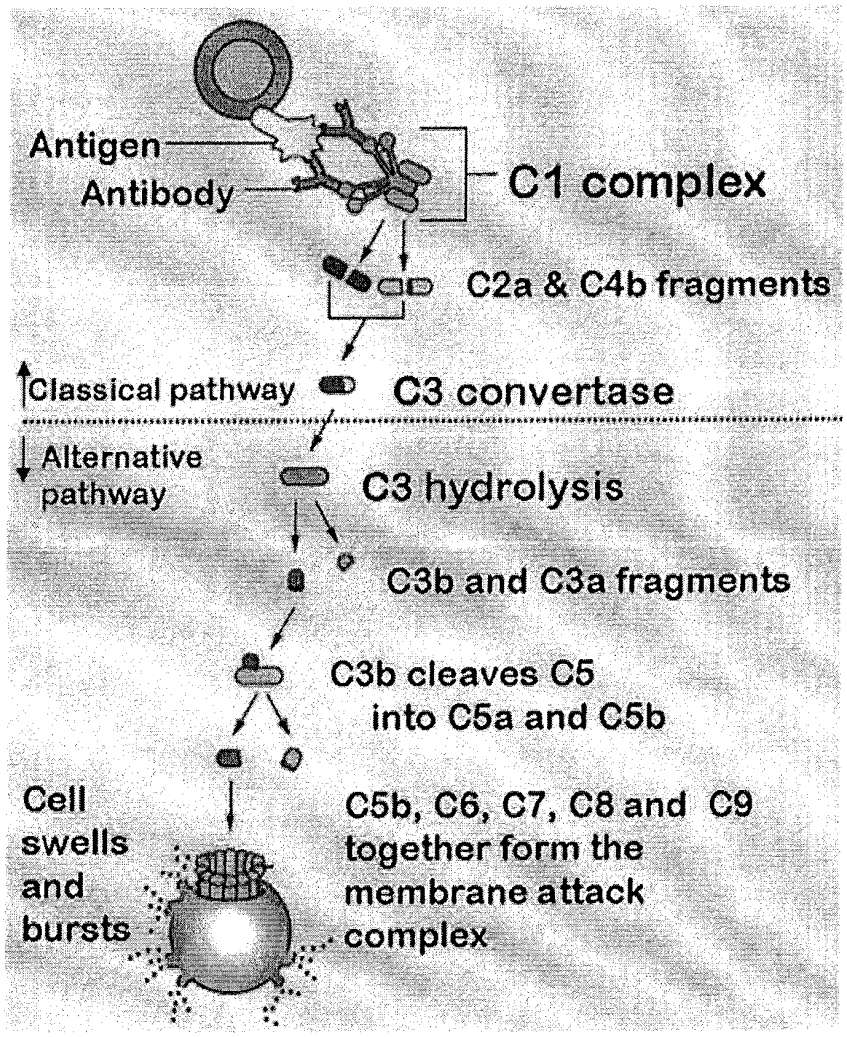

Antigen
Antibody
C1 complex
C2a & C4b fragments
Classical pathway
C3 convertase
Alternative pathway
C3 hydrolysis
C3b and C3a fragments
C3b cleaves C5 into C5a and C5b
Cell swells and bursts
C5b, C6, C7, C8 and C9 together form the membrane attack complex

FIG. 1.

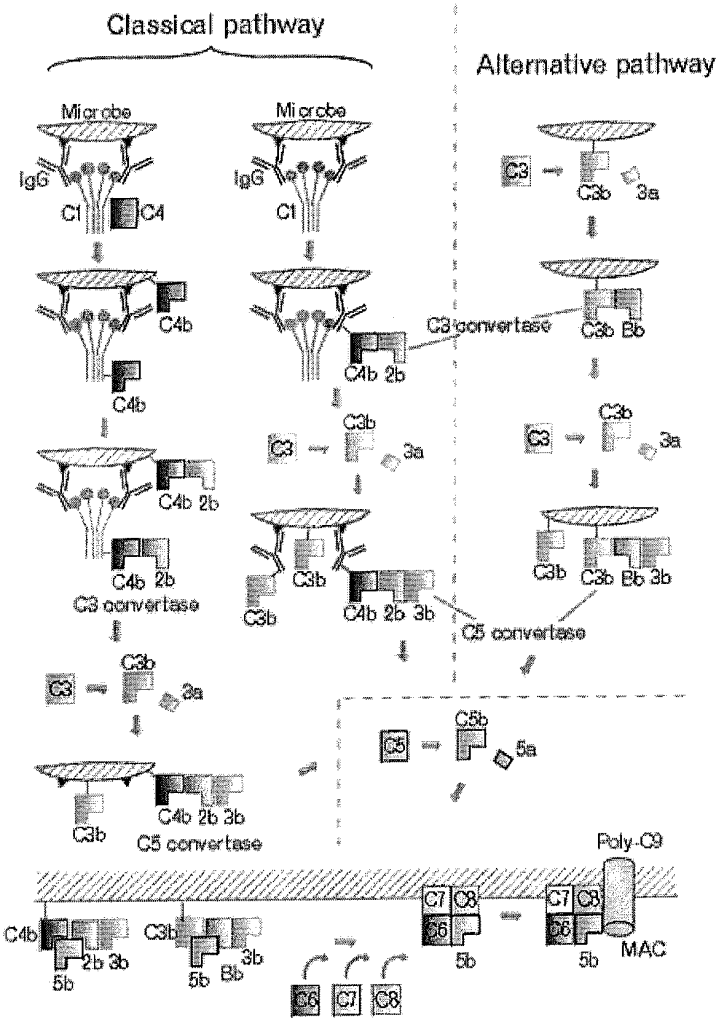

Classical pathway
Alternative pathway
Microbe
IgG
C1
C4
C4b
C4b 2b
C3 convertase
C3
C3b
3a
C3b Bb
C3b Bb 3b
C5 convertase
C5
C5b
5a
C4b 2b 3b
Poly-C9
C7
C8
C6
5b
MAC
Bb
C6 C7 C8

FIG. 2

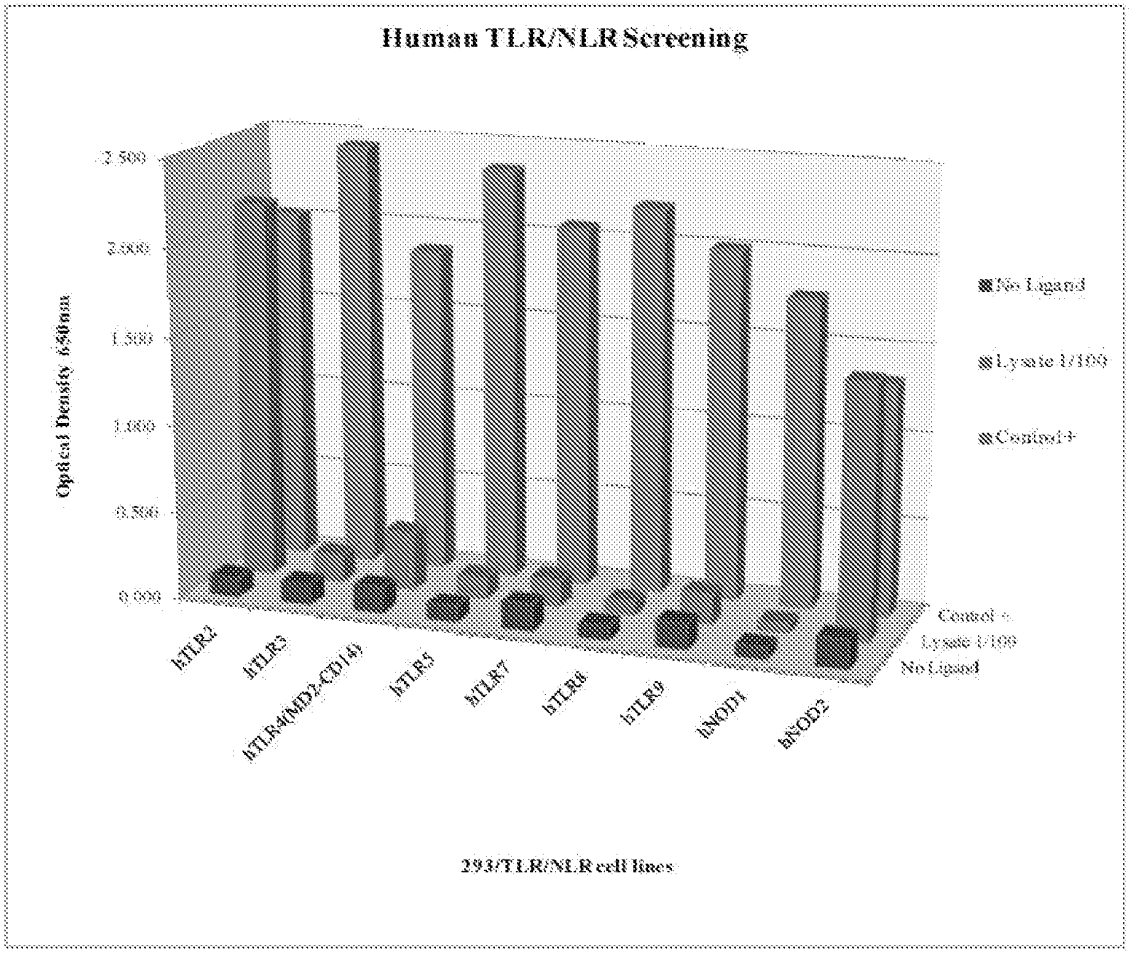

Human TLR/NLR Screening
Optical Density 650nm
2.500
2.000
1.500
1.000
0.500
0.000
No Ligand
Lysate 1/100
Control+
hTLR2
hTLR3
hTLR4(MD2-CD14)
hTLR5
hTLR7
hTLR8
hTLR9
hNOD1
hNOD2
Control +
Lysate 1/100
No Ligand
293/TLR/NLR cell lines

FIG. 3.

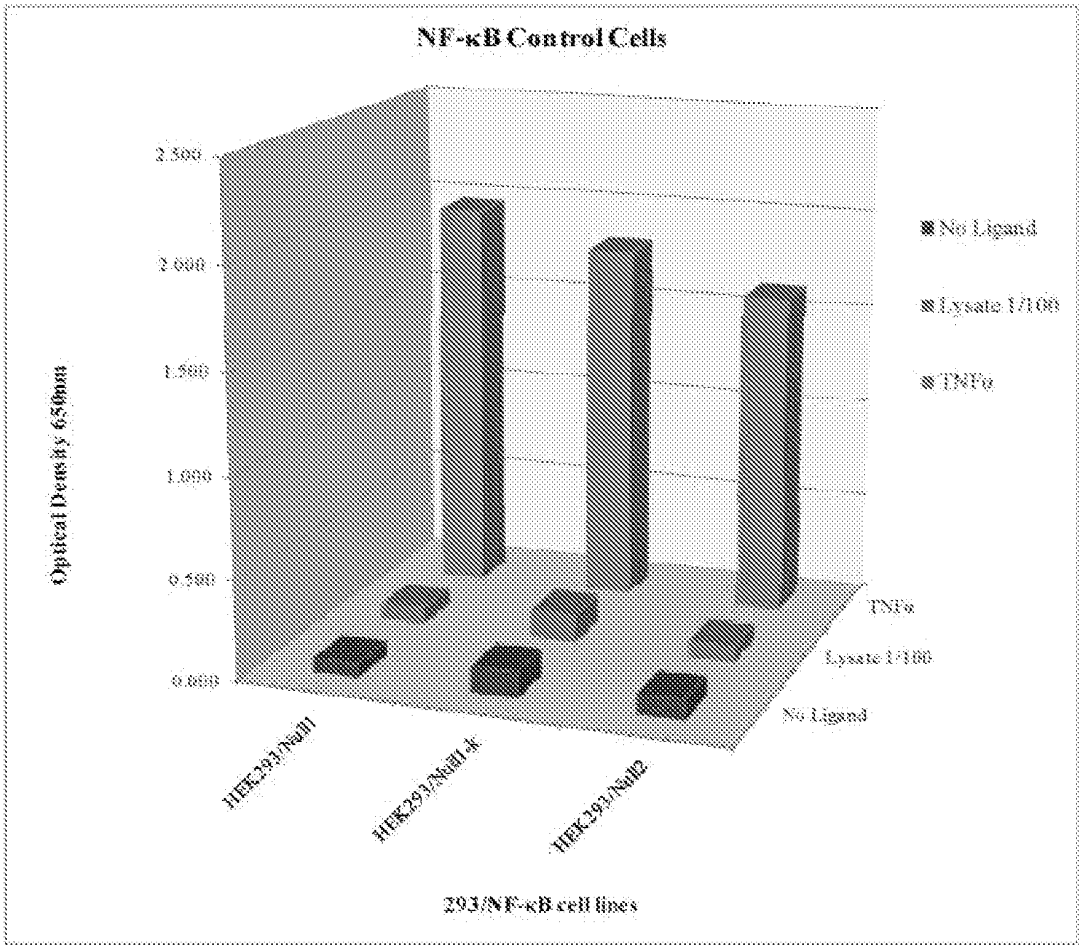

NF-κB Control Cells
Optical Density 650nm
2.500
2.000
1.500
1.000
0.500
0.000
No Ligand
Lysate 1/100
TNFα
HEK293/Null1
HEK293/Null1-K
HEK293/Null2
293/NF-κB cell lines

FIG. 4.

Human TLR/NLR Ligand Screening

Screening #1

TLR/NLR Cell Line	No Ligand	Ligand: 1/100	Control
hTLR2	0.114	2.188	2.052
hTLR3	0.130	0.166	2.438
hTLR4(MD2-CD14)	0.183	0.399	1.980
hTLR5	0.099	0.126	2.392
hTLR7	0.161	0.185	2.119
hTLR8	0.082	0.084	2.237
hTLR9	0.153	0.184	1.984
hNOD1	0.068	0.057	1.736
hNOD2	0.159	1.504	1.326

Screening #2

TLR/NLR Cell Line	No Ligand	Ligand: 1/100	Control
hTLR2	0.093	2.173	2.046
hTLR3	0.116	0.160	2.425
hTLR4(MD2-CD14)	0.140	0.301	1.848
hTLR5	0.093	0.121	2.347
hTLR7	0.158	0.160	2.081
hTLR8	0.085	0.092	2.228
hTLR9	0.144	0.186	2.083
hNOD1	0.070	0.058	1.765
hNOD2	0.172	1.249	1.335

Screening #3

TLR/NLR Cell Line	No Ligand	Ligand: 1/100	Control
hTLR2	0.118	2.140	1.980
hTLR3	0.123	0.141	2.441
hTLR4(MD2-CD14)	0.135	0.302	1.876
hTLR5	0.093	0.120	2.333
hTLR7	0.148	0.138	2.003
hTLR8	0.083	0.073	2.158
hTLR9	0.152	0.169	1.954
hNOD1	0.069	0.062	1.791
hNOD2	0.170	1.597	1.321

FIG. 5

Screening #1

Control Cell Line	No Ligand	Lysate 1/100	FSTA
HEK293/Null1	0.070	0.083	1.962
HEK293/Null1-k	0.133	0.112	1.820
HEK293/Null2	0.097	0.081	1.607

Screening #2

Control Cell Line	No Ligand	Lysate 1/100	FSTA
HEK293/Null1	0.070	0.089	1.961
HEK293/Null1-k	0.130	0.112	1.778
HEK293/Null2	0.097	0.078	1.619

Screening #3

Control Cell Line	No Ligand	Lysate 1/100	FSTA
HEK293/Null1	0.068	0.068	1.985
HEK293/Null1-k	0.129	0.199	1.809
HEK293/Null2	0.099	0.086	1.636

FIG. 6.