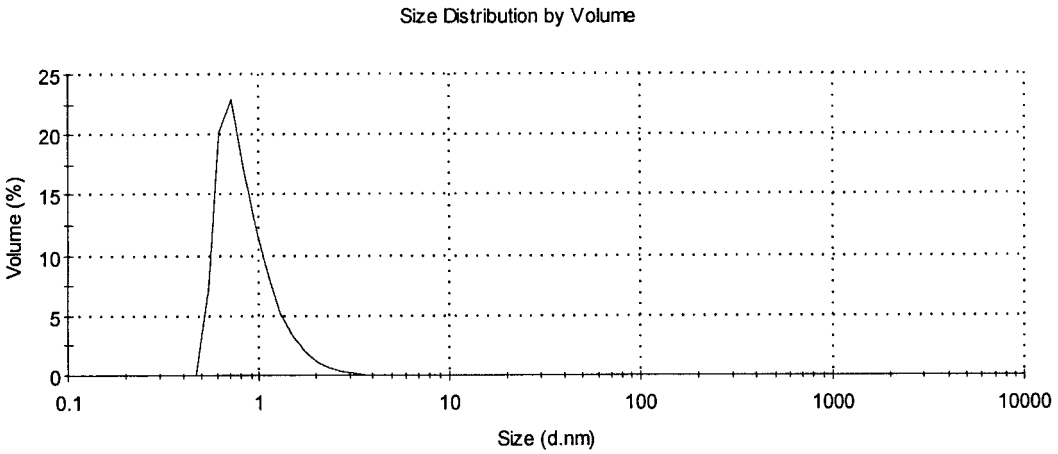

Size Distribution by Volume
Volume (%)
25
20
15
10
5
0
0.1
1
10
100
1000
10000
Size (d.nm)

Fig. 1

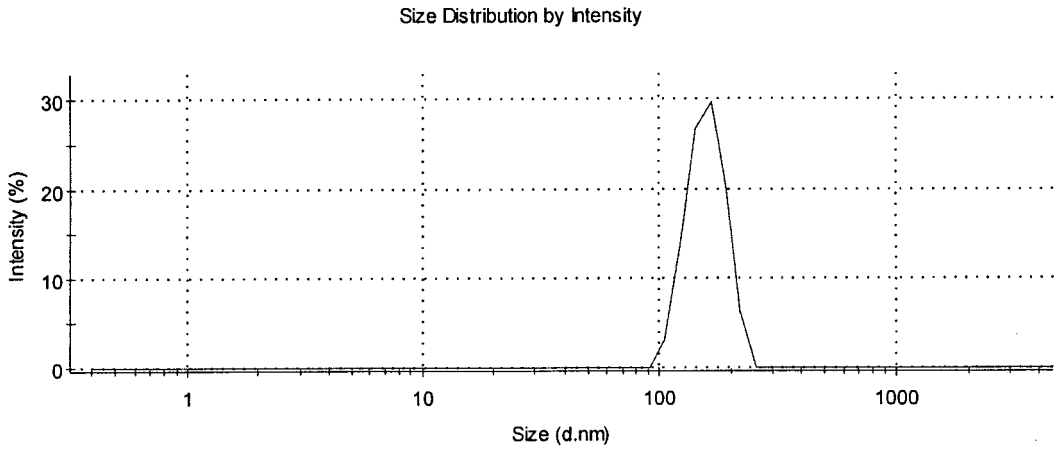

Size Distribution by Intensity
Intensity (%)
30
20
10
0
1
10
100
1000
Size (d.nm)

Fig. 2

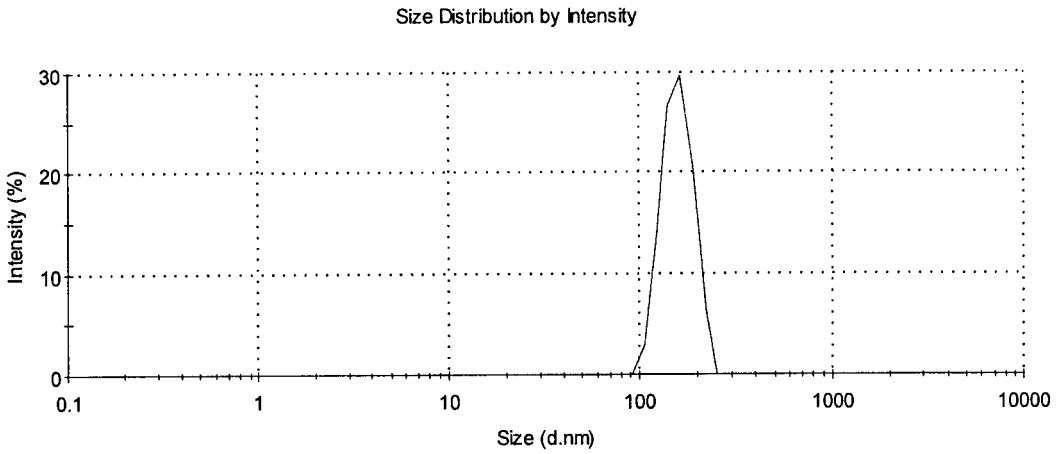

Size Distribution by Intensity
Intensity (%)
30
20
10
0
0.1
1
10
100
1000
10000
Size (d.nm)

Fig. 3

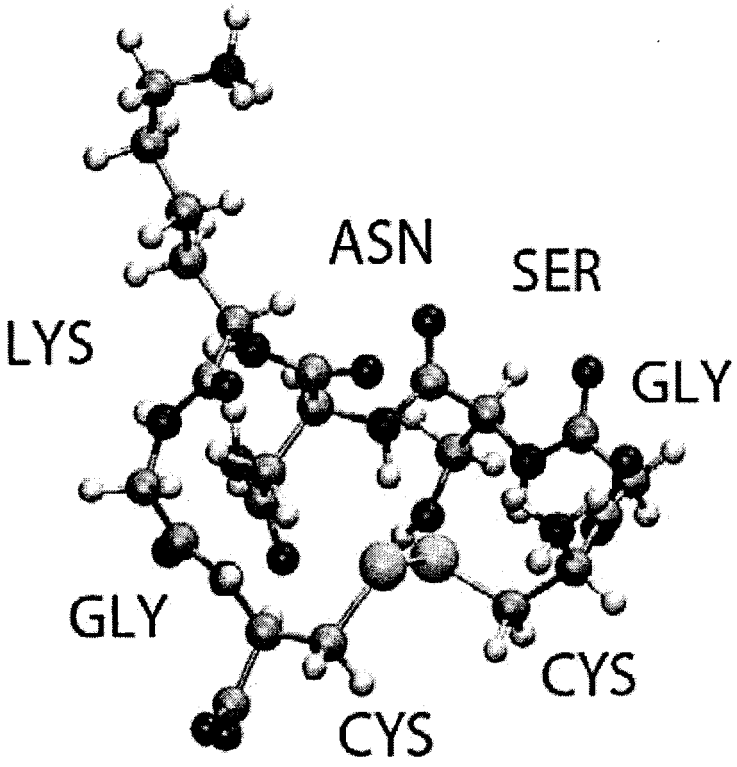


Fig. 4

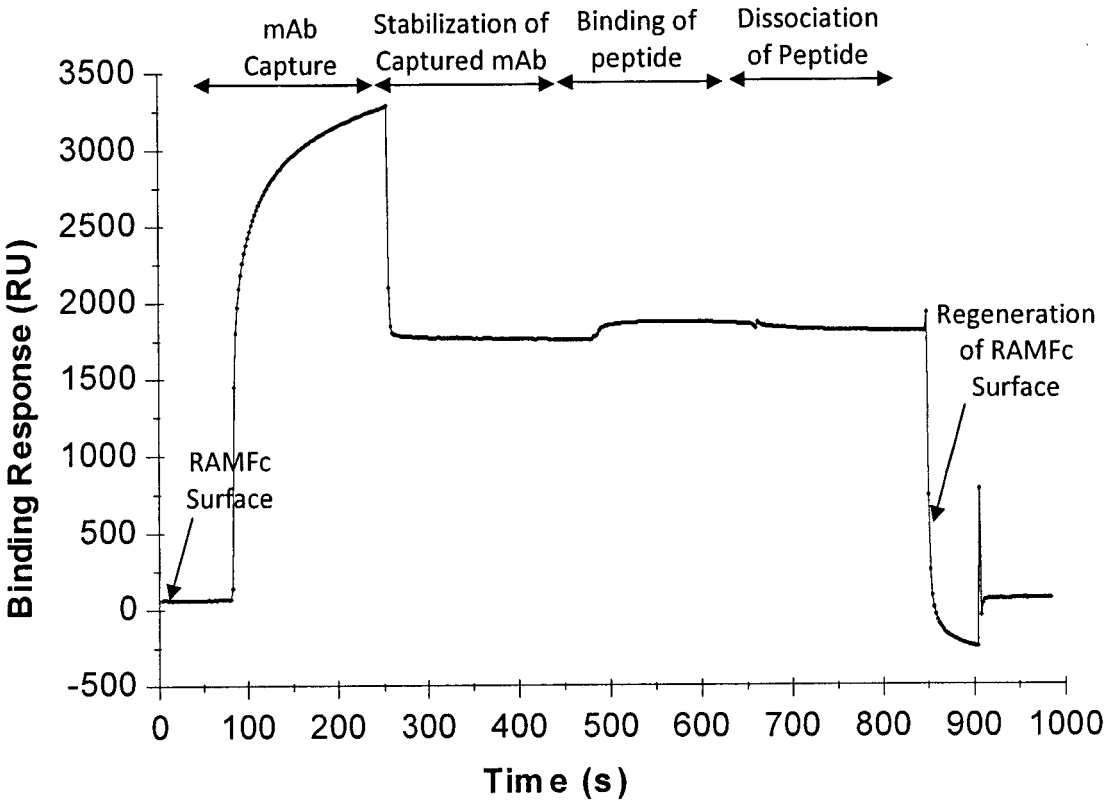

mAb Capture
Stabilization of Captured mAb
Binding of peptide
Dissociation of Peptide
Regeneration of RAMFc Surface
RAMFc Surface
Binding Response (RU)
Time (s)
3500
3000
2500
2000
1500
1000
500
0
-500
0
100
200
300
400
500
600
700
800
900
1000

Fig.5

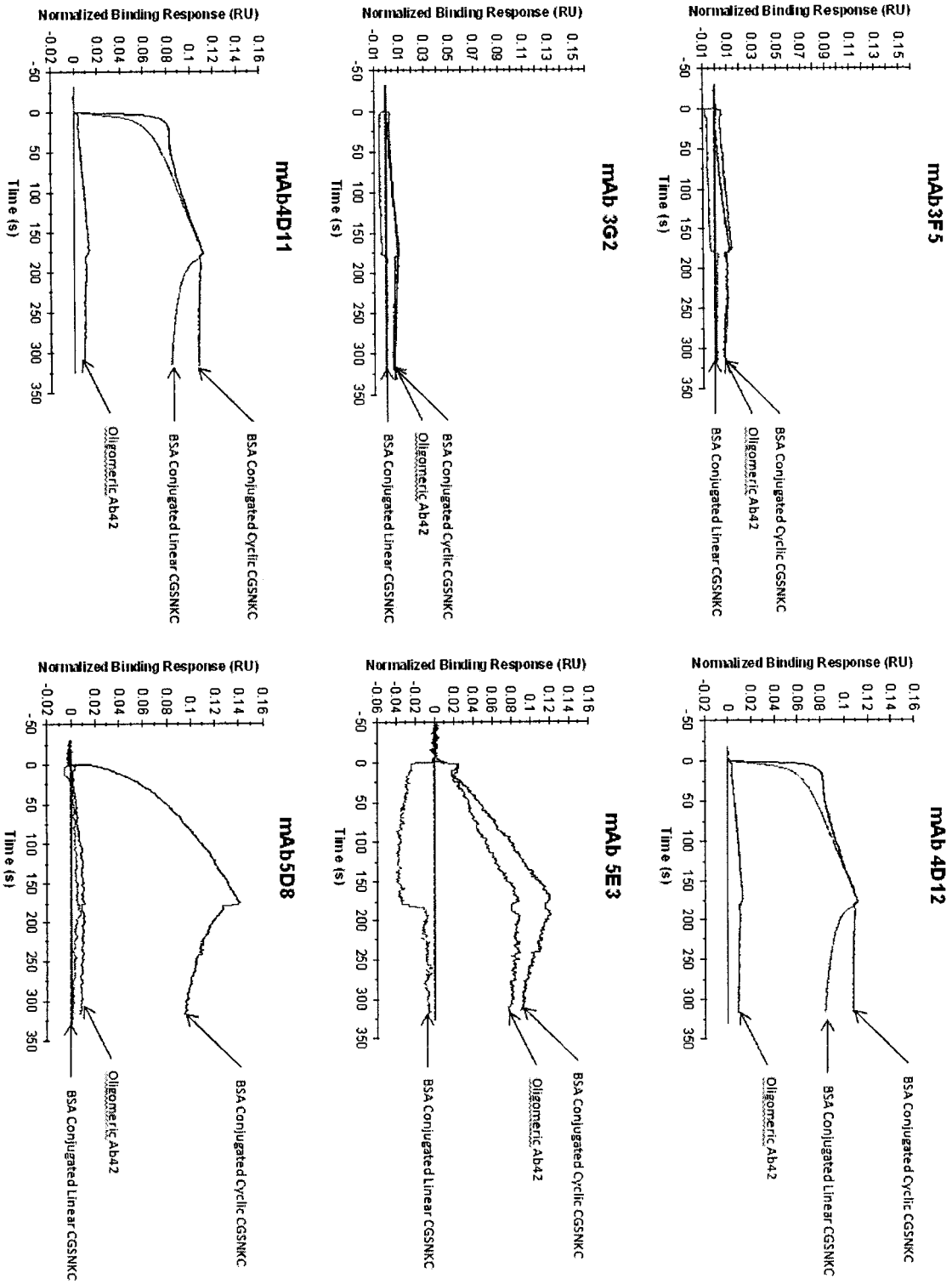

mAb3F5
mAb 3G2
mAb4D11
mAb 4D12
mAb 5E3
mAb5D8
Normalized Binding Response (RU)
Time (s)
BSA Conjugated Cyclic CGSNKC
BSA Conjugated Linear CGSNKC
Oligomeric Ab42

Fig. 6

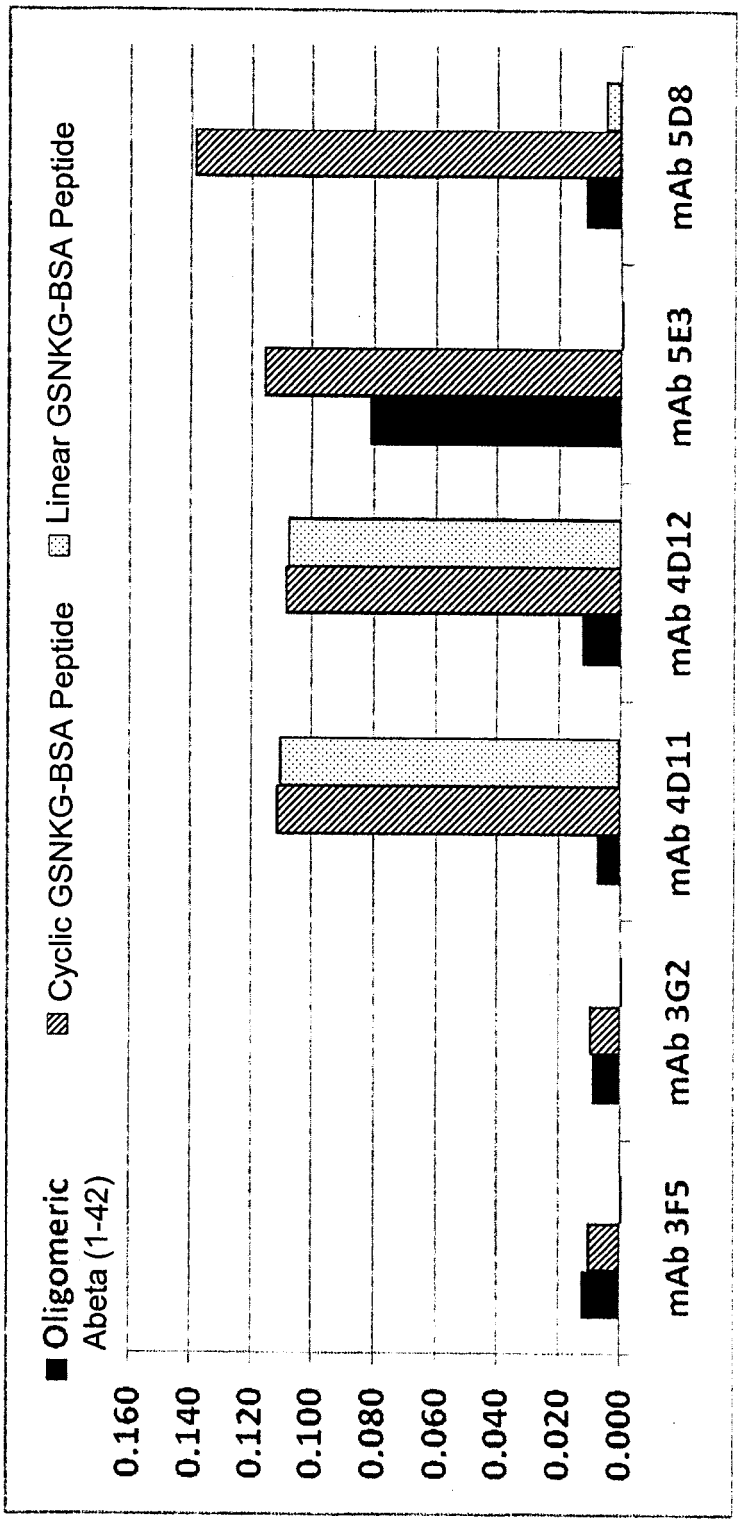

Oligomeric Abeta (1-42)
Cyclic GSNKG-BSA Peptide
Linear GSNKG-BSA Peptide
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mAb 3F5
mAb 3G2
mAb 4D11
mAb 4D12
mAb 5E3
mAb 5D8

Fig. 7

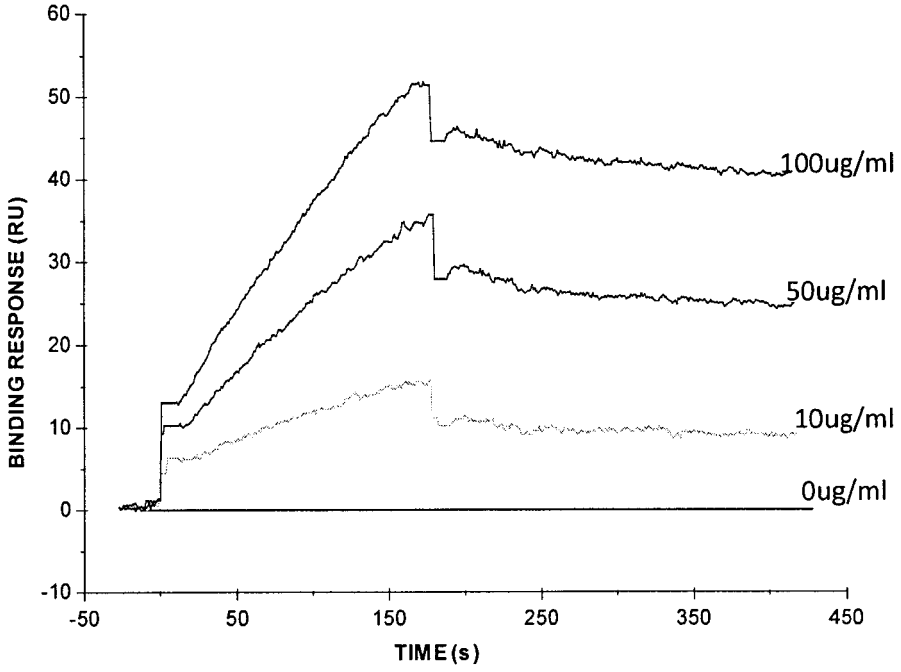

60
50
40
30
20
10
0
-10
BINDING RESPONSE (RU)
-50
50
150
250
350
450
TIME (s)
100ug/ml
50ug/ml
10ug/ml
0ug/ml

Fig. 8

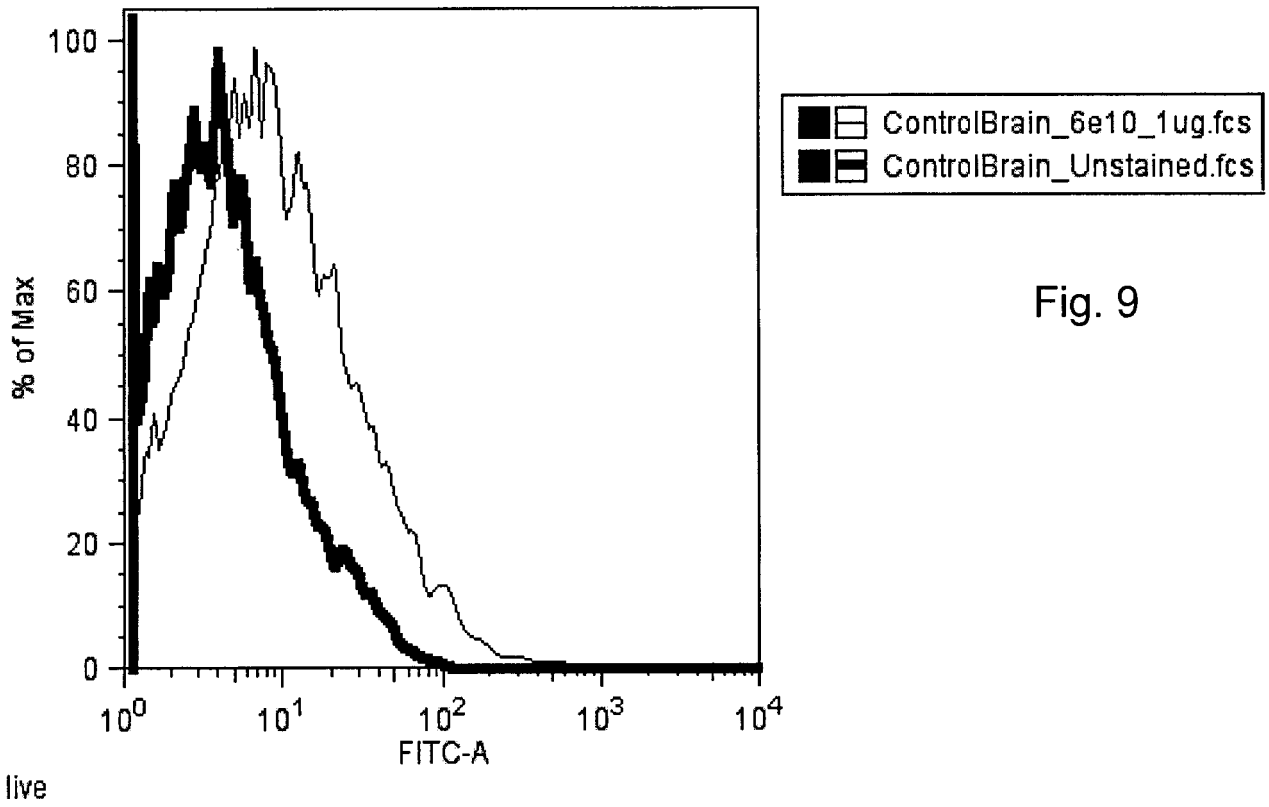

100
80
60
40
20
0
% of Max
10^0
10^1
10^2
10^3
10^4
FITC-A
ControlBrain_6e10_1ug.fcs
ControlBrain_Unstained.fcs
live

Fig. 9

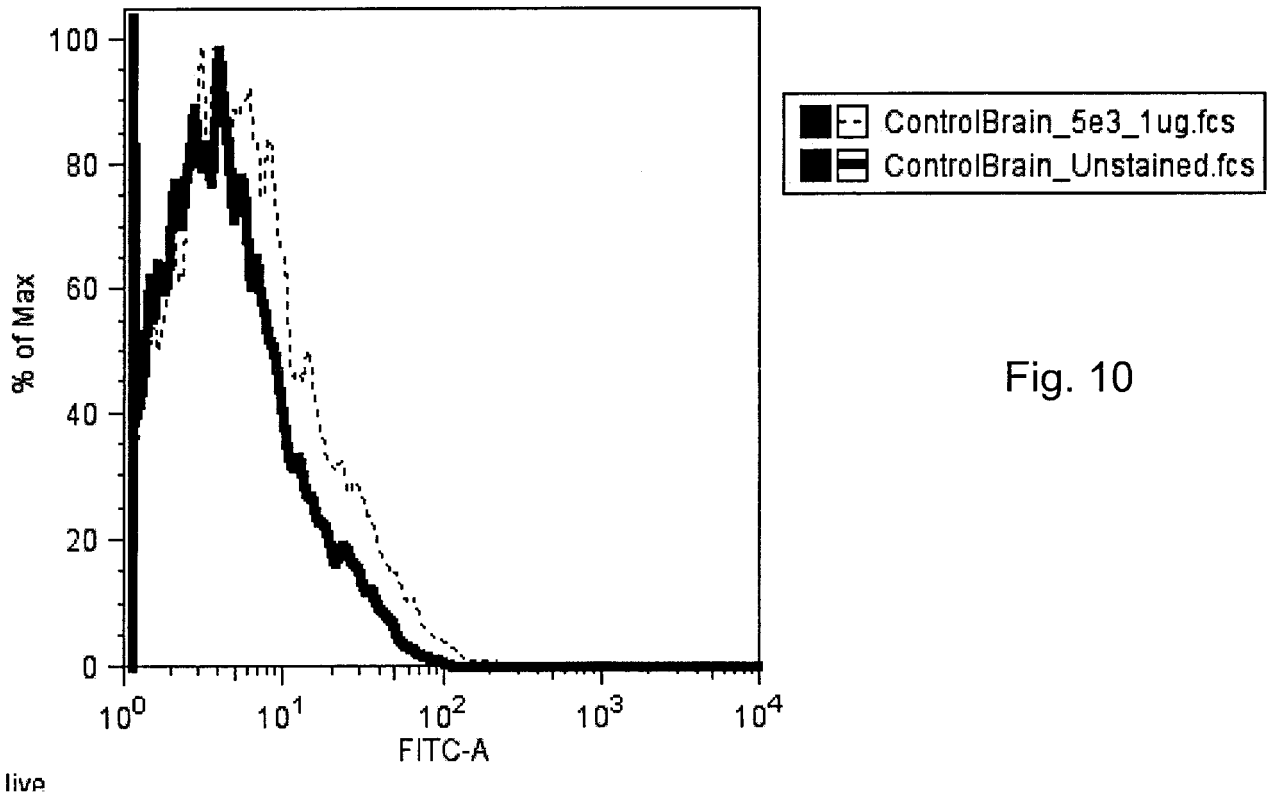

100
80
60
40
20
0
% of Max
10^0
10^1
10^2
10^3
10^4
FITC-A
ControlBrain_5e3_1ug.fcs
ControlBrain_Unstained.fcs
live

Fig. 10

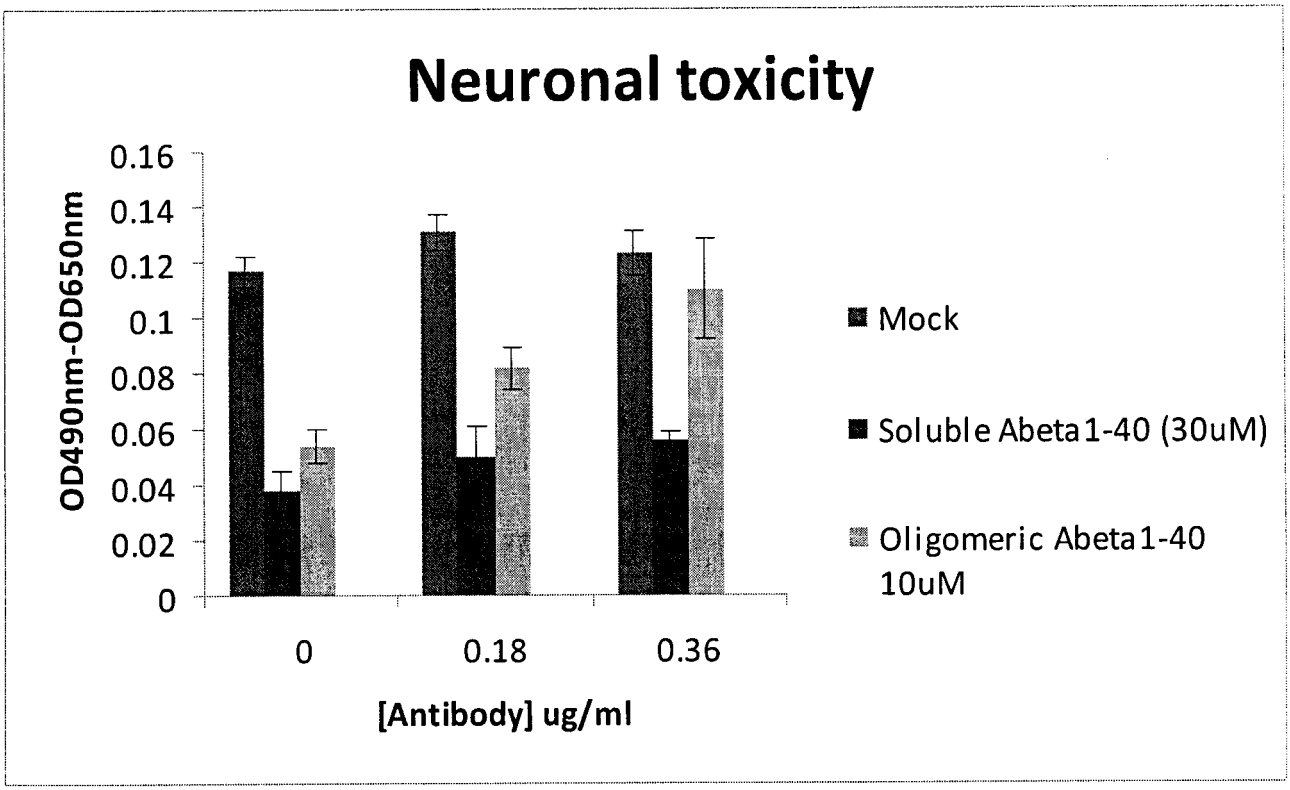

Neuronal toxicity
OD490nm-OD650nm
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
0.18
0.36
[Antibody] ug/ml
Mock
Soluble Abeta1-40 (30uM)
Oligomeric Abeta1-40 10uM

Fig. 11

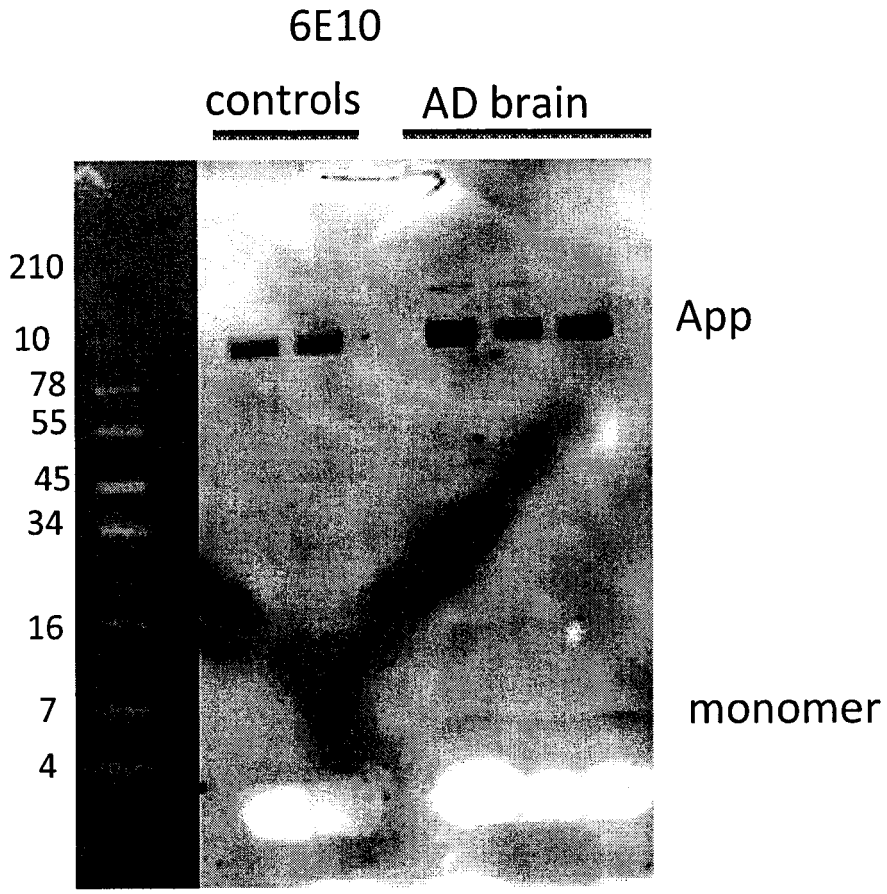


Fig. 12

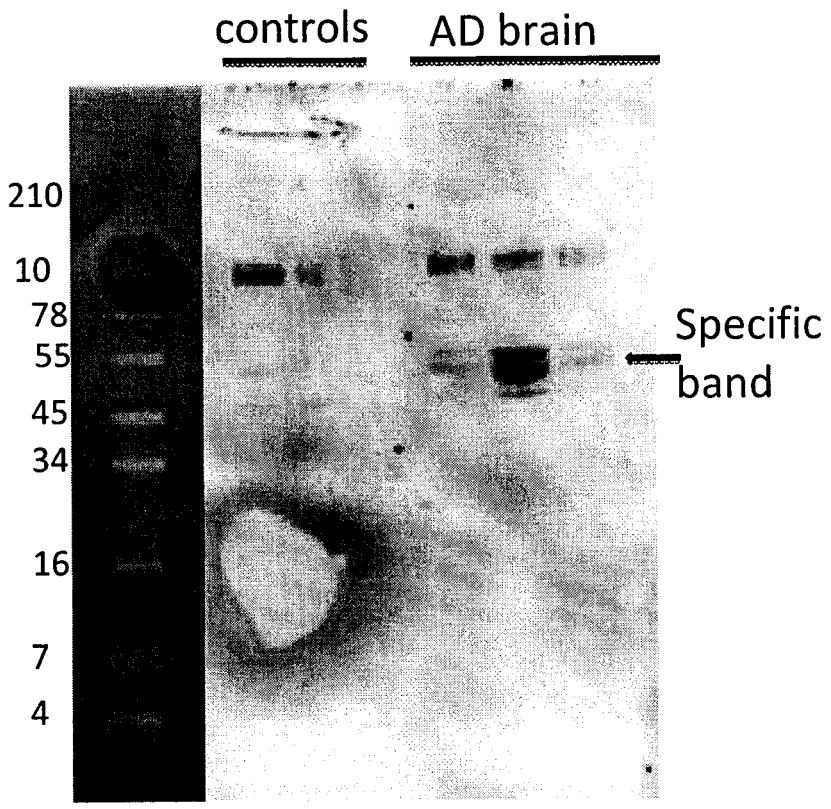


Fig. 13

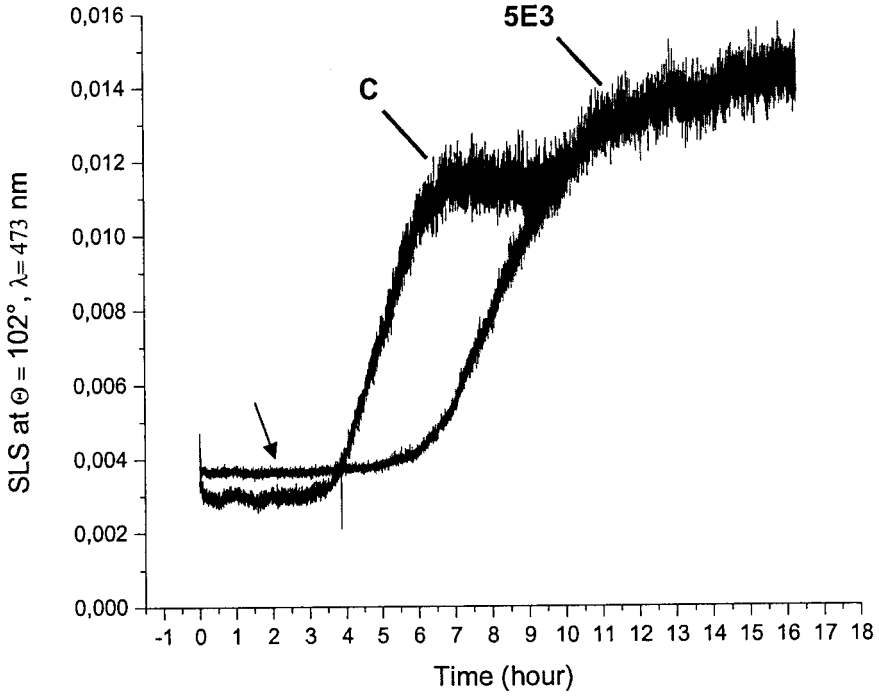

5E3
C
SLS at Θ = 102°, λ= 473 nm
0,016
0,014
0,012
0,010
0,008
0,006
0,004
0,002
0,000
-1 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
Time (hour)

Fig. 14

SEQ ID NO: 4
H-IgH1st3prime 489 48 426 0.05

NNNNNNNNNTNNNNNNNNNNANNNNNNNNANNATAGCCCTTGNNNNGCATCCCAGGGTCACCAT
GGAGTTAGTTTGGGCAGCAGATCCAGGGGCCAGTGGATAGACAGATGGGGGTGTCGTTTTGGCTGAGGA
GACTGTGAGAGTGGTGCCTTGGCCCCAGTAGTGAGCCTCGTAATCCATCCTTGCACAGAAATAGACCGCA
GAGTCCTCAGAGGTCAATCTGCTGAGCTGCATGTAGGCTGTGCTGGAGGATTTGTCTGCAGTCAGTGTGG
CCTTGCCCTTGAACTTCTCATTGTACTTAGTATTAACATTTCCAGGATAAATCCATCCAATCCACTCAAGTCC
CTGTCCAGGCCTGTGTATCACCCACTGTATATAGTAGCTTGTGAATATGTAGCCAGAAGCCTTGCAGGATA
TCCTCACTGAAGCCCCAGGCTTCACCAGCTCAGGTCCAGACTCCTGCAGCTGCACCTCNNAATTNNNNNN
N

SEQ ID NO: 5
H-IgH1st5prime 486 16 450 0.05

NNNNNNNNTGGNGANCCTGGGGCTTCNGTGAGGANATCCTGCAAGGCTTCTGGCTACATATTCACAAGC
TACTATATACAGTGGGTGATACACAGGCCTGGACAGGGACTTGAGTGGATTGGATGGATTTATCCTGGAA
ATGTTAATACTAAGTACAATGAGAAGTTCAAGGGCAAGGCCACACTGACTGCAGACAAATCCTCCAGCAC
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AGGCTCACTACTGGGGCCAAGGCACCACTCTCACAGTCTCCTCAGCCAAAACGACACCCCCATCTGTCTAT
CCACTGGCCCCTGGATCTGCTGCCCAAACTAACTCCATGGTGACCCTGGGATGCCTGGTCAAGGGCTATTT
CCCTGAGCCAGTGACAGTGACCTGGAACTCTGGATCCCTGTCCAGCGGTGTNNNNAACCTTNNN

SEQ ID NO: 6
3prime Kappa

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GCCACTGAGCCTTTTTGGGACACCTCAATCTTGAGTGGATGCGGCGTAAATCANGCGTTTAATAGTTCCGT
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NGANNCNCAAAAAANCAGCAA

SEQ ID NO: 7
5prime Kappa

NNNNNNNNNNNNNNNNNCNNGTCNNNTCCTCCTTATCTGCCTCTCTGGGAGAAAAAGTCCGTCTCAC
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GCCCGATCTAACCCCCATCCTCTTTAGATTCTGGTGTCCCAAAAAGGGTCCCTGCCAGGATGTCTGGGTCA
GATTATTCTATCAACATCACCATCCTTGAGTCTGAAGATTATGAAGACGATGCCTGTCTACAATATGGTAAT
TATCCTCGGAAGTTCAGTGGAGGCAACGAGCTAGAAATCTAACAGGCTGATGCTGCAACAACTGTATCCA
TCTTCCCACCATCACACCATCA

Fig. 15