FIG. 1

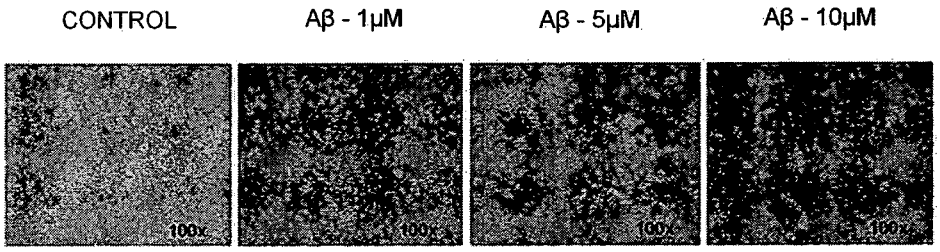


FIG. 2

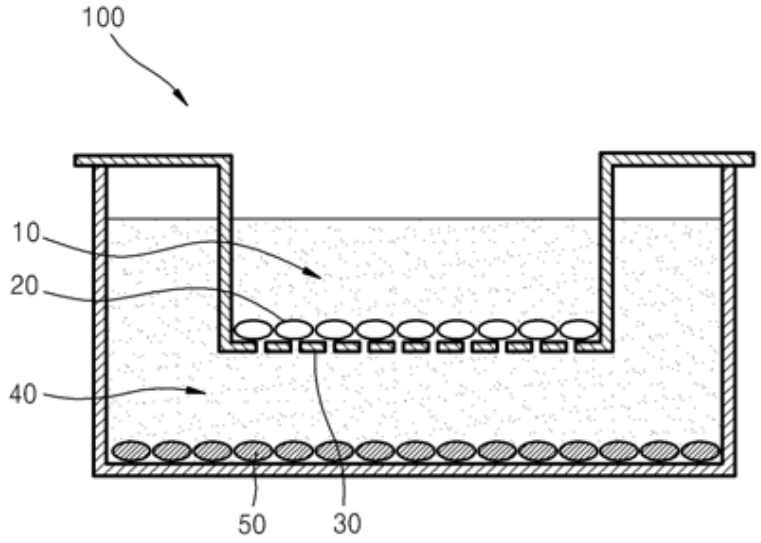


FIG. 3

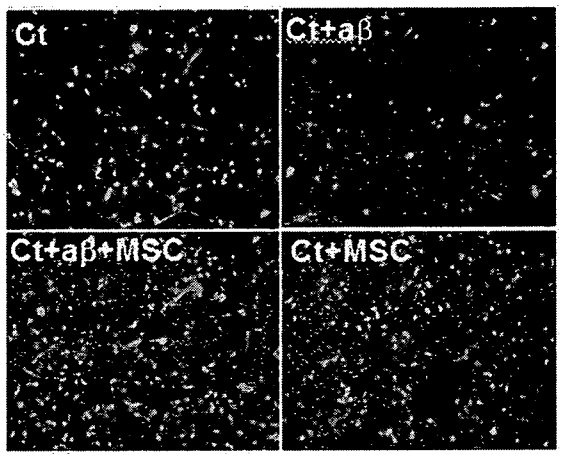


FIG. 4

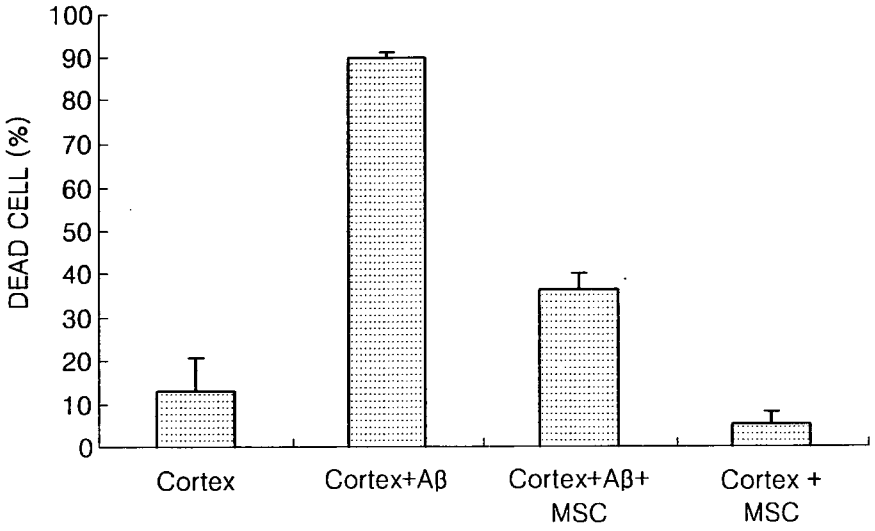

DEAD CELL (%)
100
90
80
70
60
50
40
30
20
10
0
Cortex
Cortex+Aβ
Cortex+Aβ+ MSC
Cortex + MSC

FIG. 5

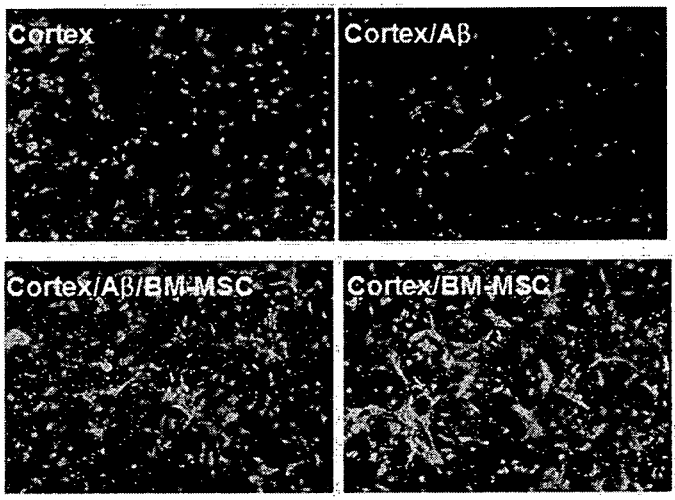

Cortex
Cortex/Aβ
Cortex/Aβ/BM-MSC
Cortex/BM-MSC

FIG. 6

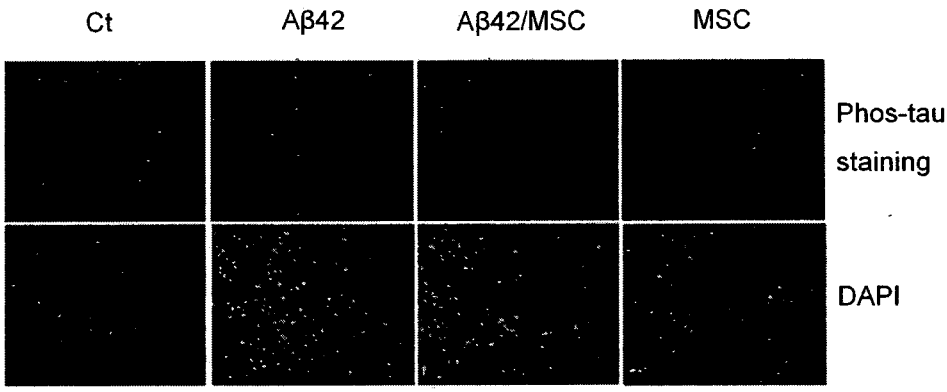

Ct
Aβ42
Aβ42/MSC
MSC
Phos-tau staining
DAPI

FIG. 7

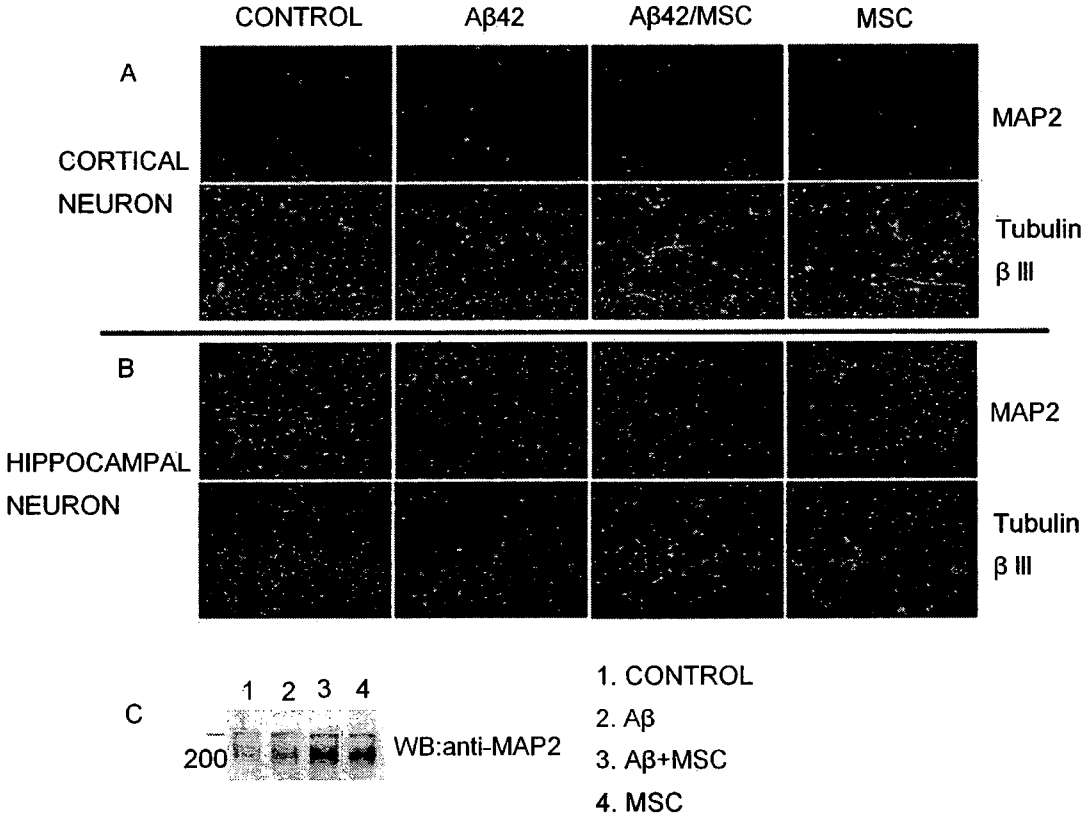

CONTROL
Aβ42
Aβ42/MSC
MSC
A
CORTICAL NEURON
MAP2
Tubulin β III
B
HIPPOCAMPAL NEURON
MAP2
Tubulin β III
C
1 2 3 4
200
WB:anti-MAP2
1. CONTROL
2. Aβ
3. Aβ+MSC
4. MSC

FIG. 8

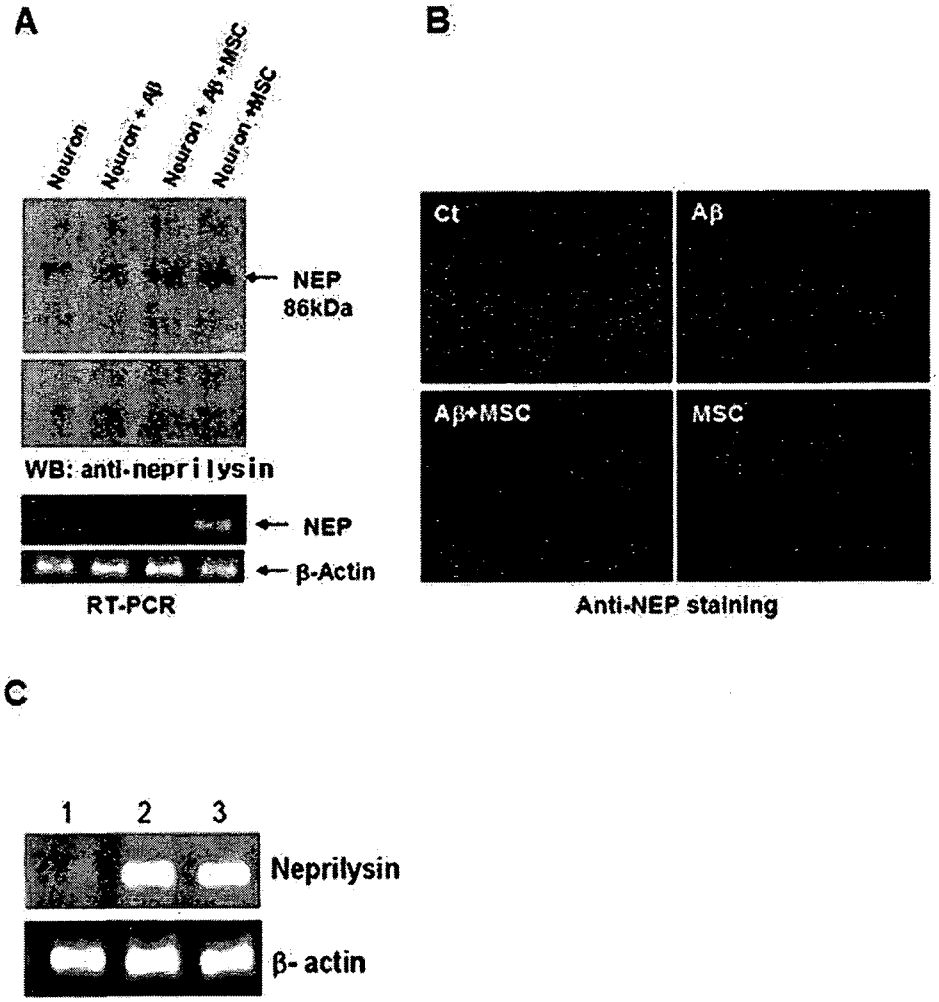

A
Neuron
Neuron + Aβ
Neuron + Aβ +MSC
Neuron +MSC
NEP
86kDa
WB: anti-neprilysin
NEP
β-Actin
RT-PCR
B
Ct
Aβ
Aβ+MSC
MSC
Anti-NEP staining
C
1
2
3
Neprilysin
β- actin

FIG. 9

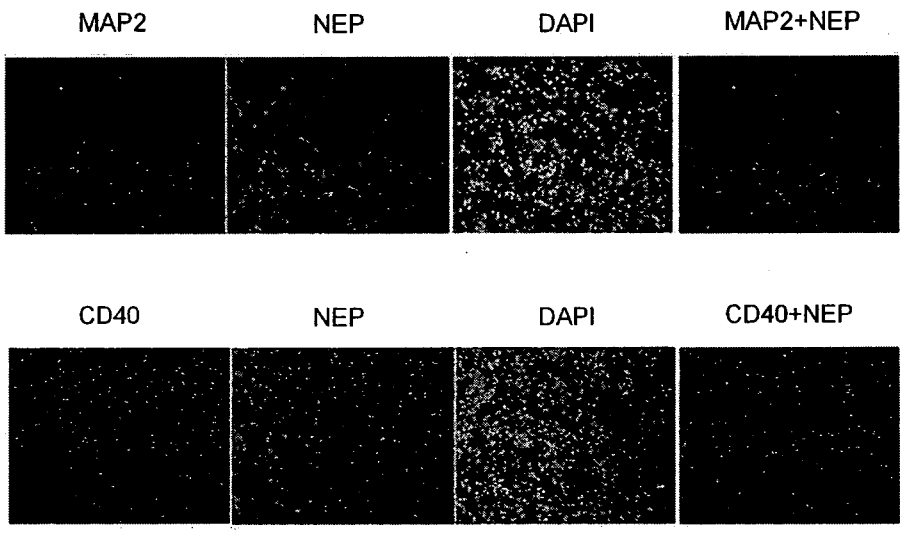


FIG. 10

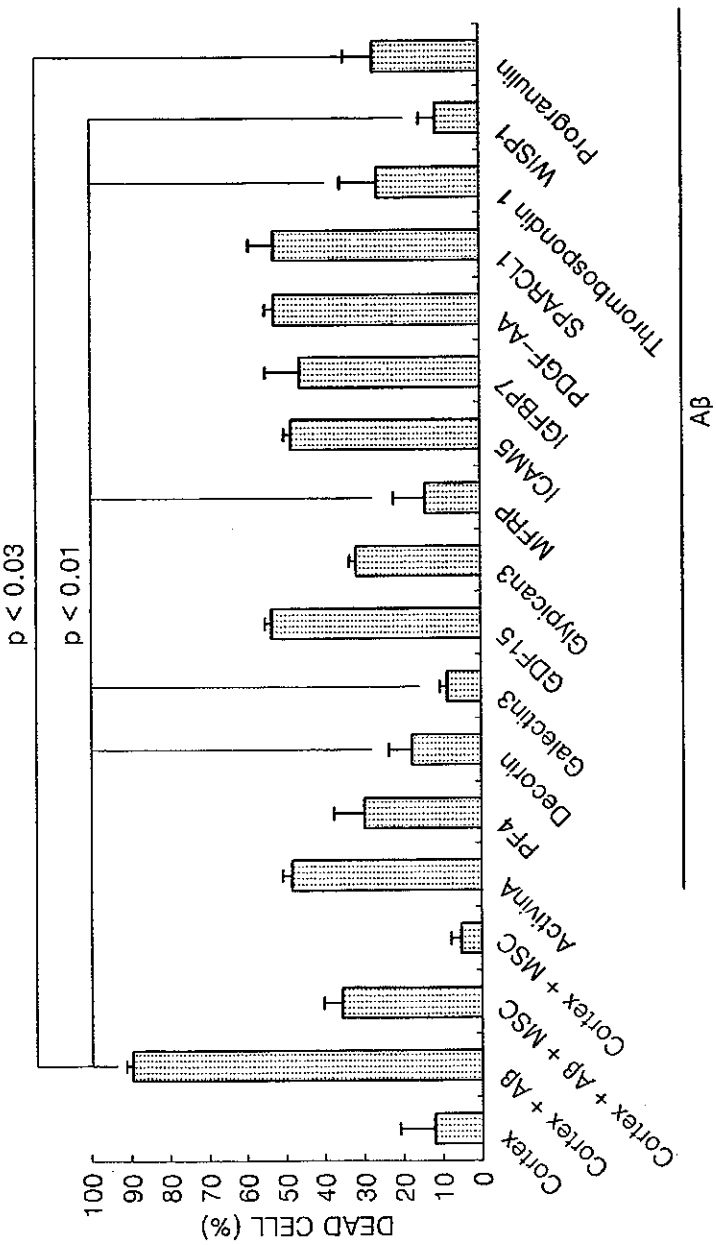

DEAD CELL (%)
100
90
80
70
60
50
40
30
20
10
0
p < 0.03
p < 0.01
Aβ
Cortex
Cortex + Aβ
Cortex + Aβ + MSC
Cortex + MSC
Activin A
PF4
Decorin
Galectin3
GDF15
Glypican3
MFRP
ICAM5
IGFBP7
PDGF-AA
SPARCL1
Thrombospondin 1
WISP1
Progranulin

FIG. 11

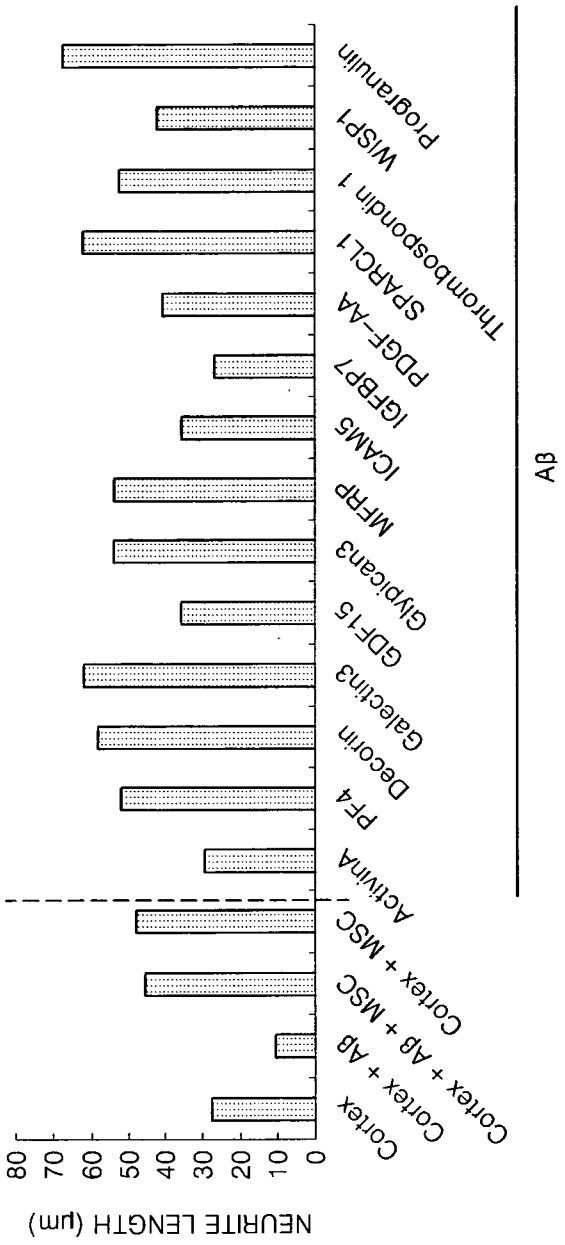

NEURITE LENGTH (μm)
0
10
20
30
40
50
60
70
80
Cortex
Cortex + Aβ
Cortex + Aβ + MSC
Cortex + MSC
Activina
PF4
Decorin
Galectin3
GDF-15
Glypican3
MFRP
ICAM5
IGFBP7
PDGF-AA
SPARCL1
Thrombospondin 1
WISP1
Progranulin
Aβ

FIG. 12

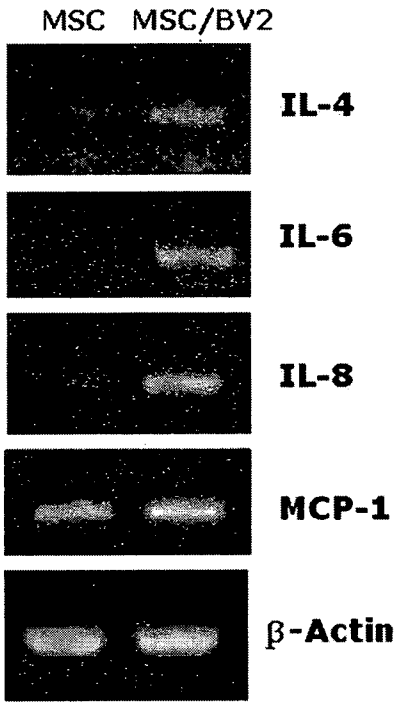


FIG. 13

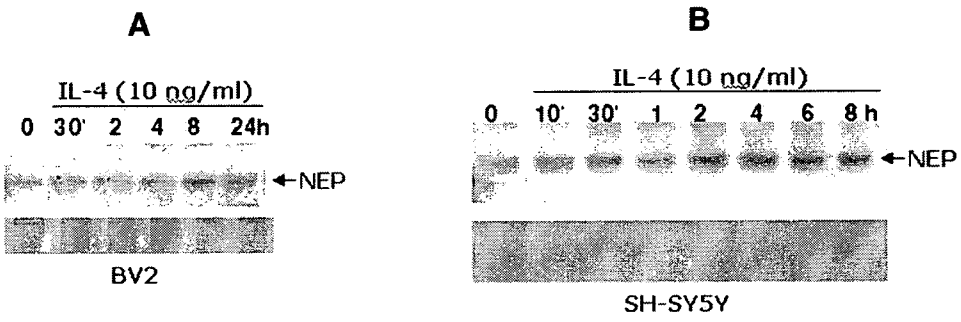

A
IL-4 (10 ng/ml)
0 30' 2 4 8 24h
←NEP
BV2
B
IL-4 (10 ng/ml)
0 10' 30' 1 2 4 6 8 h
←NEP
SH-SY5Y

FIG. 14

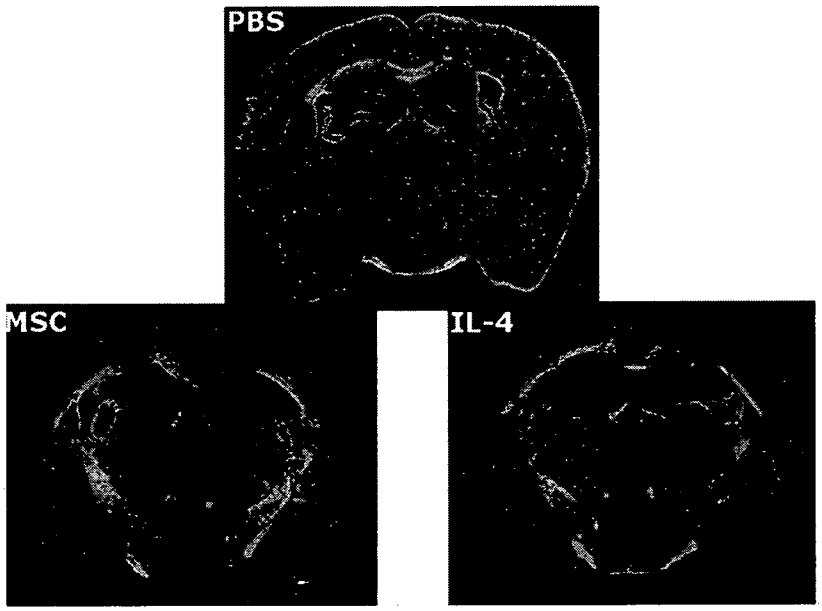

PBS
MSC
IL-4

FIG. 15

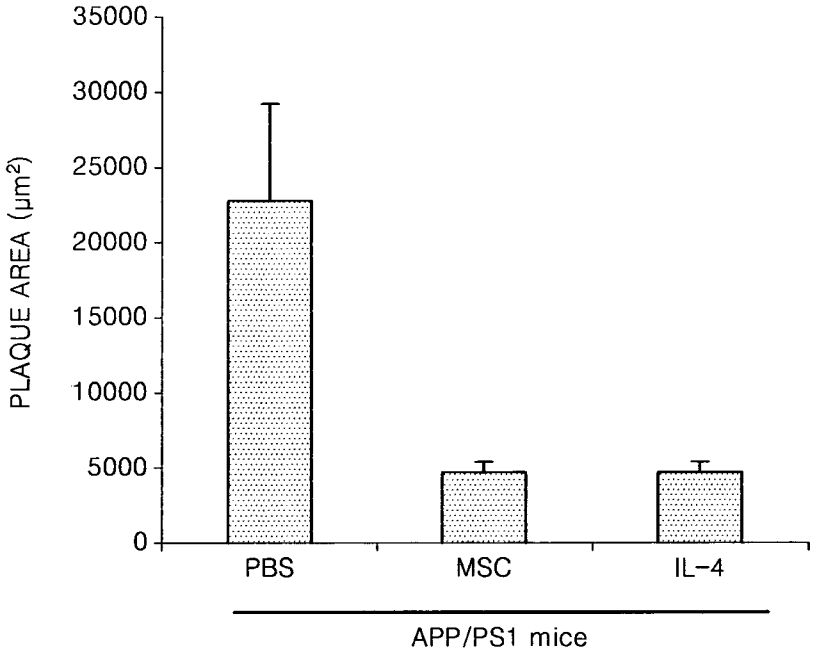

35000
30000
25000
20000
15000
10000
5000
0
PLAQUE AREA (μm²)
PBS
MSC
IL-4
APP/PS1 mice

FIG. 16

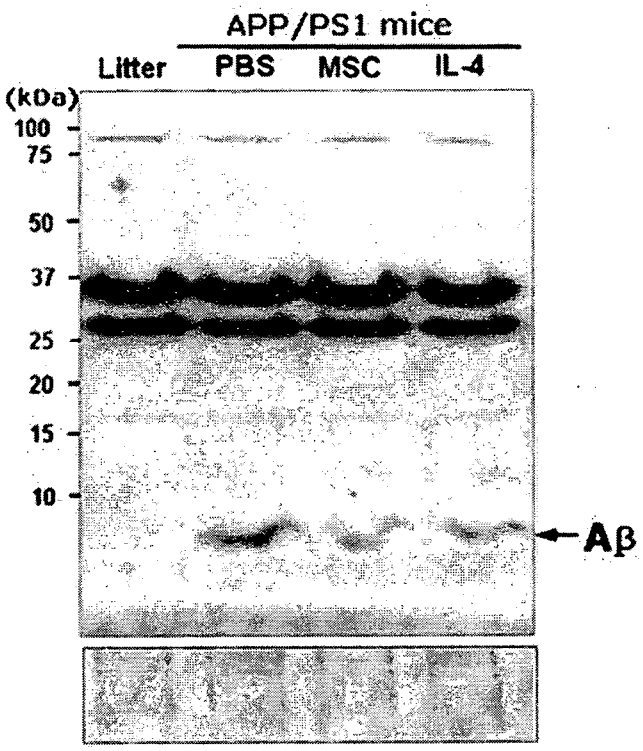


FIG. 17

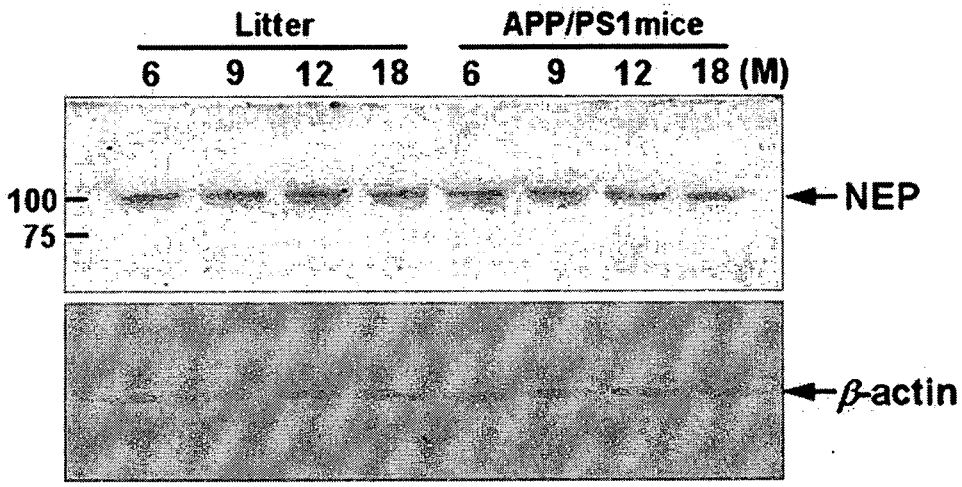


FIG. 18

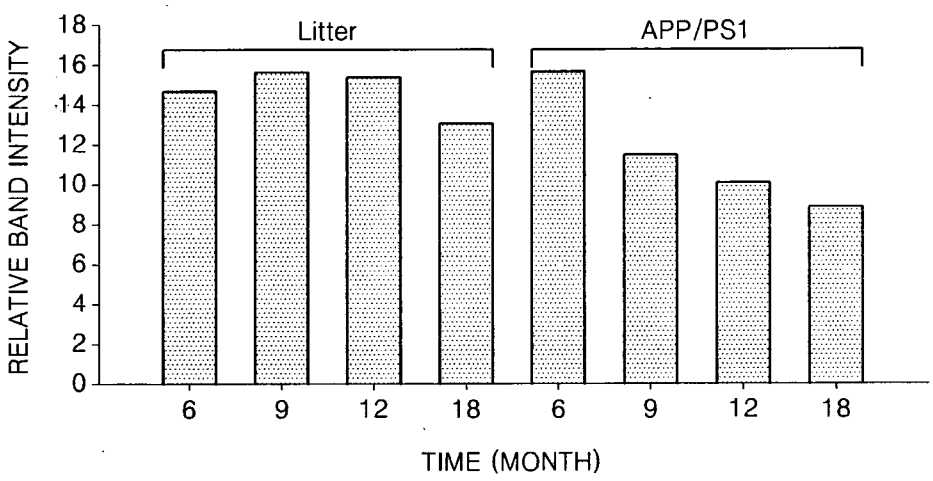

Litter
APP/PS1
RELATIVE BAND INTENSITY
18
16
14
12
10
8
6
4
2
0
6
9
12
18
6
9
12
18
TIME (MONTH)

FIG. 19

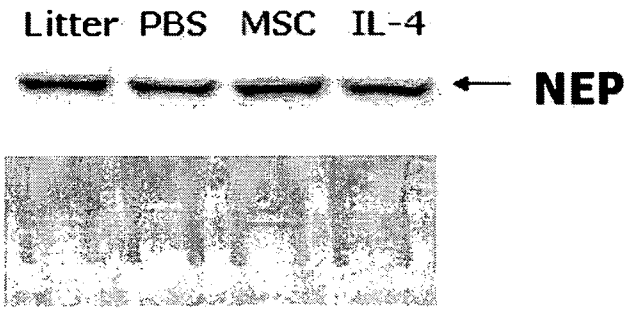


FIG. 20

