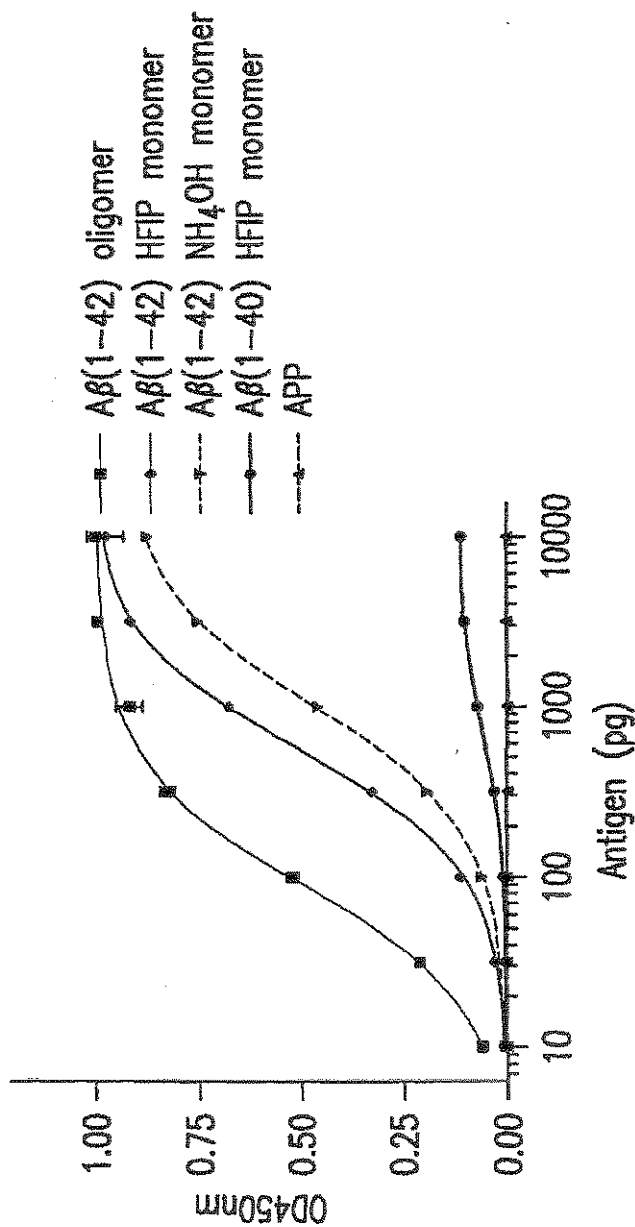


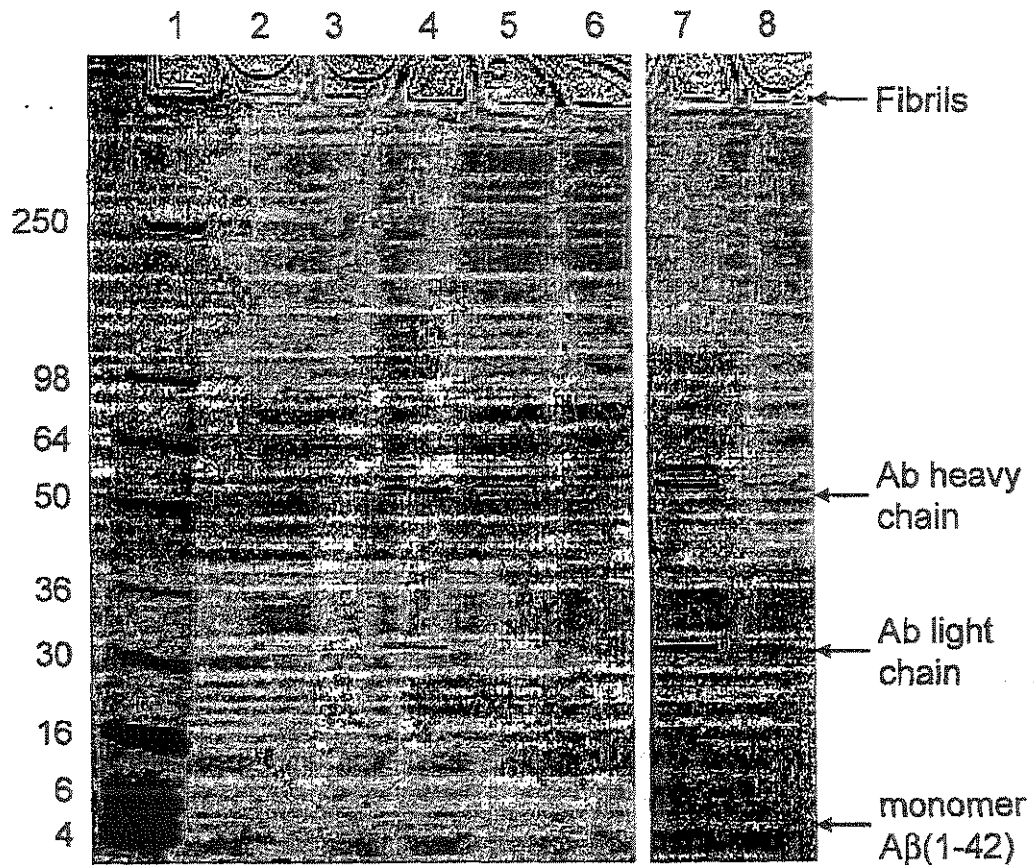
Sandwich-Elisa of Several A β -Forms with Biotinylated
Clone 8F5 Coated Clone 6G1

coated anti-A β clone 6G1 --> A β -Forms --> biotinylated clone
8F5 --> Streptavidin-POD --> development



	A β (1-42) oligomer	A β (1-42) HFIP monomer	A β (1-42) NH ₄ OH monomer	A β (1-40) HFIP monomer
BOTTOM	-0.001218	0.004304	0.006727	0.004288
TOP	0.9926	1.002	0.9292	0.1116
LOGEC50	1.958	2.745	3.003	2.825
HILLSLOPE	1.215	1.270	1.204	1.375
EC50	90.74	555.8	1007	667.8

FIG.1



1. Marker
2. Fibril preparation control
3. Fibril preparation ; + mMAb 6E10 ; 20h 37°C ; supernatant
4. Fibril preparation ; + mMAb 6E10 ; 20h 37°C ; pellet
5. Fibril preparation ; + mMAb 4G8 ; 20h 37°C ; supernatant
6. Fibril preparation ; + mMAb 4G8 ; 20h 37°C ; pellet
7. Fibril preparation ; + mMAb 8F5 ; 20h 37°C ; supernatant
8. Fibril preparation ; + mMAb 8F5 ; 20h 37°C ; pellet

FIG.2

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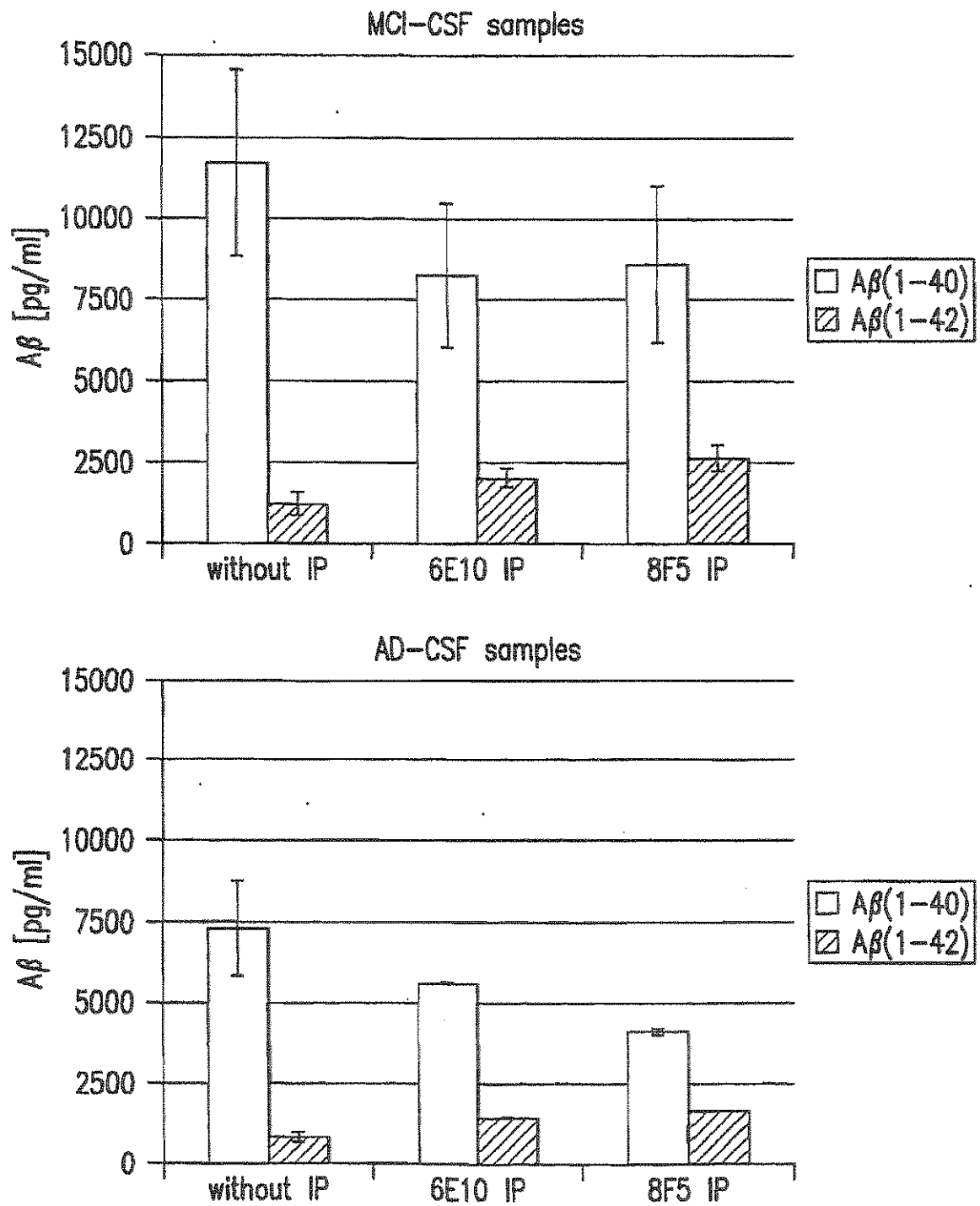
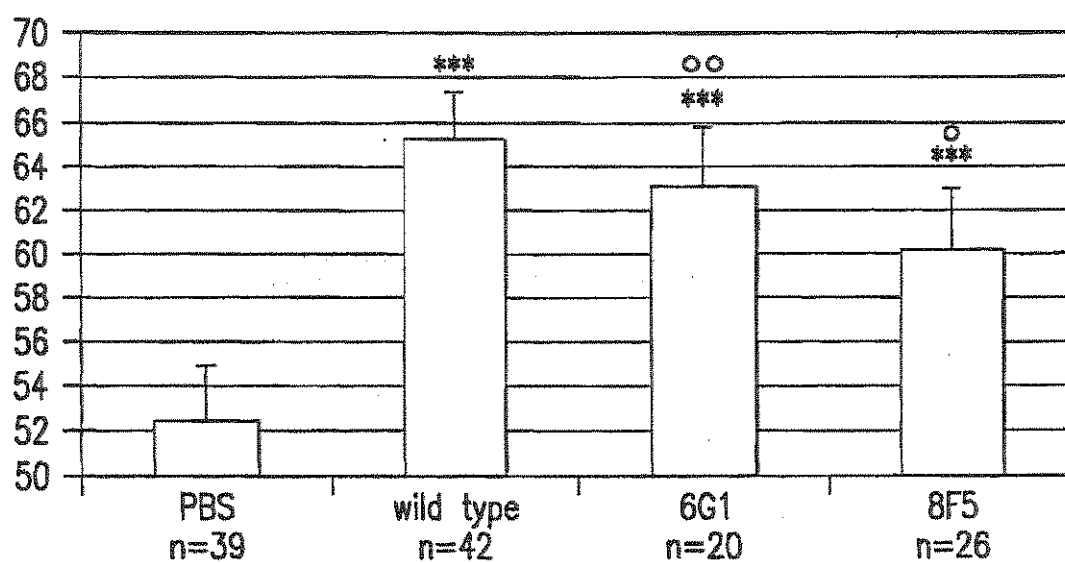


FIG.3

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*** $P < 0.001$ vs. 50%
o $P < 0.05$; oo $P < 0.01$
post hoc t-test vs. PBS after $P < 0.001$ in ANOVA

FIG.4

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VH_8F5

GAGGTGCAGCTGGTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGAGGGCCC
TGAAACTCTCCTGTGCAGCCTCTGGATTCACTTTCAGTAGCTATGGCATGTCT
TGGGTTCCGCAGACTCCAGACAAGAGGCTGGAATTGGTCGCAAGCATCAATA
GTAATGGTGGTAGCACCTATTATCCAGACAGTGTGAAGGGCCGATTACCAT
CTCCAGAGACAATGCCAAGAACACCCTGTACCTGCAAATGAGCAGTCTGAAG
TCTGAGGACACAGCCATGTATTACTGTGCAAGTGGTGACTACTGGGGCCAAG
GCTCCACTCTCACAGTCTCCTCA (SEQ ID NO:1)

FIG.5A

VL_8F5

GATGTTGTGATGACCCAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCA
AGCCTCCATCTCTTGCAGATCTAGTCAGAGCCTTGTATATAGTAATGGAGACA
CCTATTTACATTGGTACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGATC
TACAAAGTTTCCAACCGATTTTCTGGGGTCCCAGACAGGTTCAGTGGCAGTG
GATCAGGGACAGATTTCACTCAAGATCAGCAGAGTGGAGGCTGAGGATCT
GGGAGTTTATTTCTGCTCTCAAAGTACACATGTTCTTGGACGTTCCGGTGGAG
GCACCAAGCTAGAAATCAAACGG (SEQ ID NO:2)

FIG.5B

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VH 8F5

EVQLVESGGGLVQPGGSLKLSCAASGFTFSSYGMSWVRQTPDKRLELVASINSN
GGSTYYPDSVKGRFTISRDNAKNTLYLQMSSLKSEDTAMYYCASGDYWGQGST
LTVSS (SEQ ID NO:3)

CDR1 (VH) = SYGMS (SEQ ID NO:5)
CDR2 (VH) = SINSNGGSTYYPD

SVKG (SEQ ID NO:6)
CDR3 (VH) = SGDY (SEQ ID NO:7)

FIG.6A

VL 8F5

DVVMTQTPLSLPVSLGDQASISCRSSQSLVYSNGDTYLHWYLQKPGSPKLLIYK
YSNRFSGVPDRFSGSGTDFTLKISRVEAEDLGVYFCSQSTHVPWTFGGGTKLE
IKR (SEQ ID NO:4)

CDR1(VL) = RSSQSLVY

SN

GD

TYLH (SEQ ID NO:8)
CDR2(VL) = KVS

NRFS (SEQ ID NO:9)
CDR3(VL) = SQ

STHVPWT (SEQ ID NO:10)

FIG.6B

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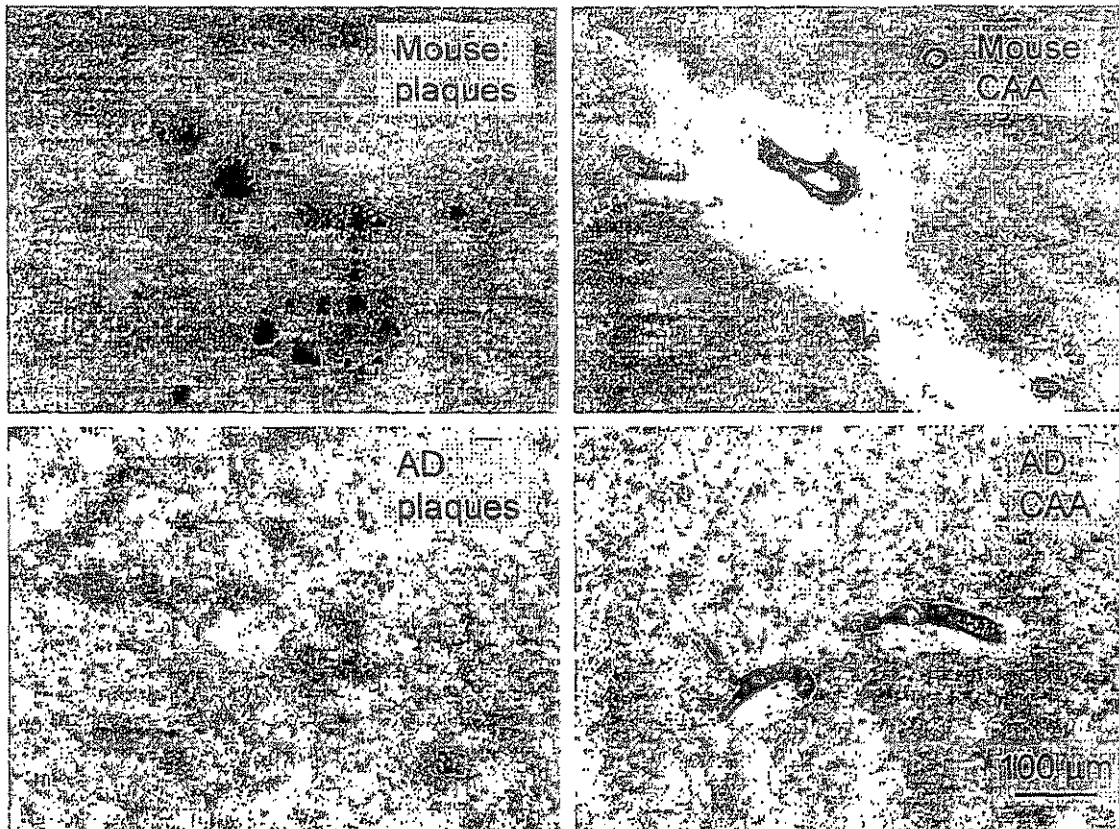


FIG.7A

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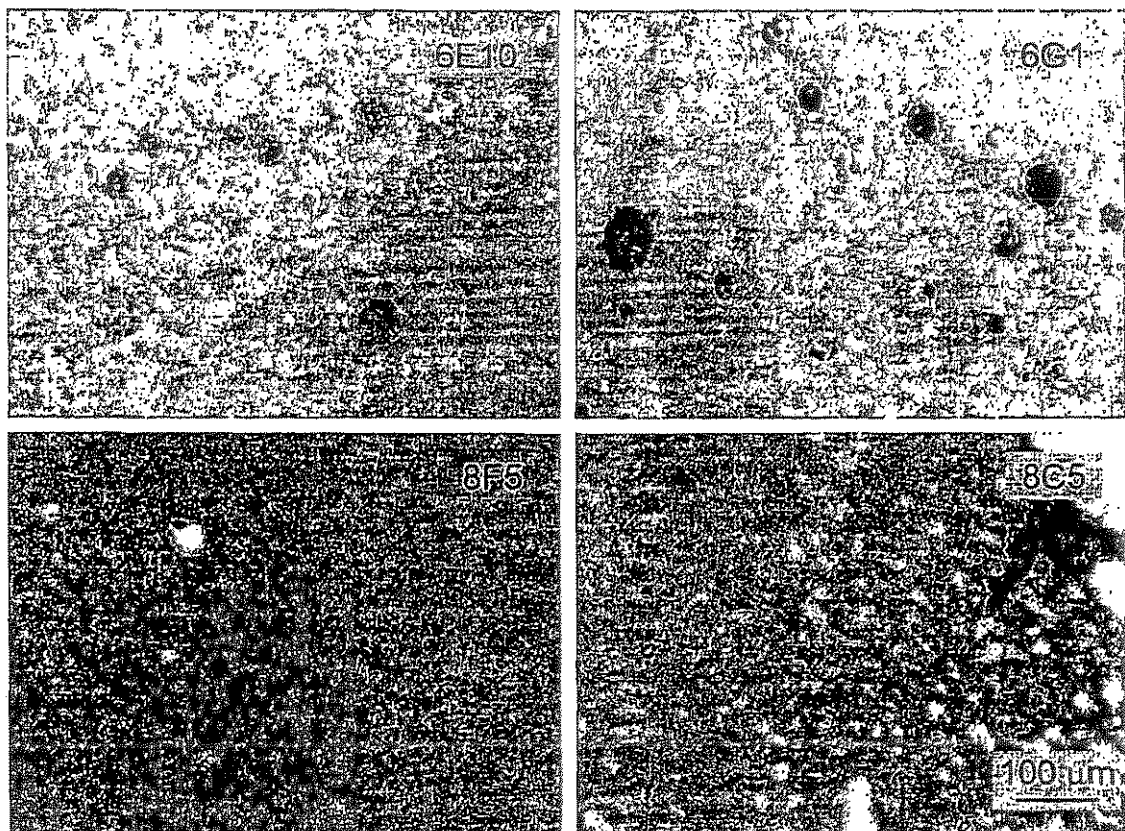


FIG.7B

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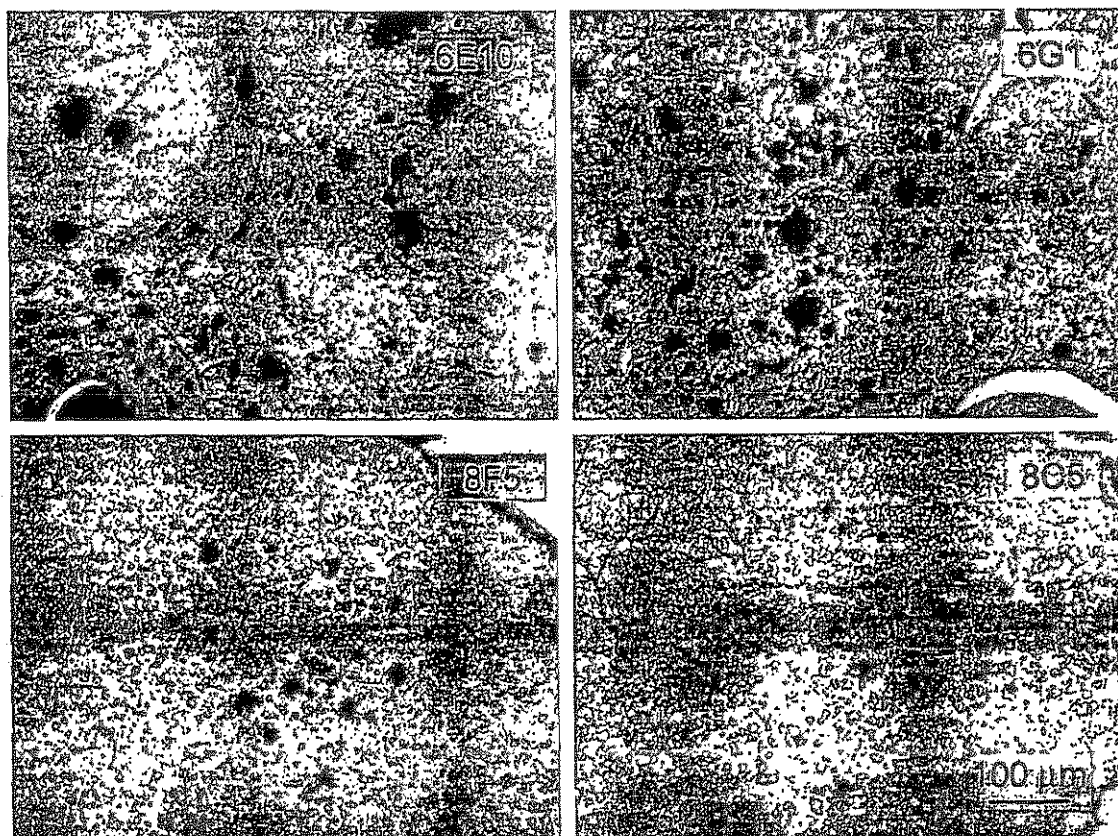


FIG.7C

Binding to amyloid plaques in Tg2576



FIG.7D

Binding to amyloid plaques in AD (RZ55)



FIG.7F

Binding to amyloid plaques in APP/L

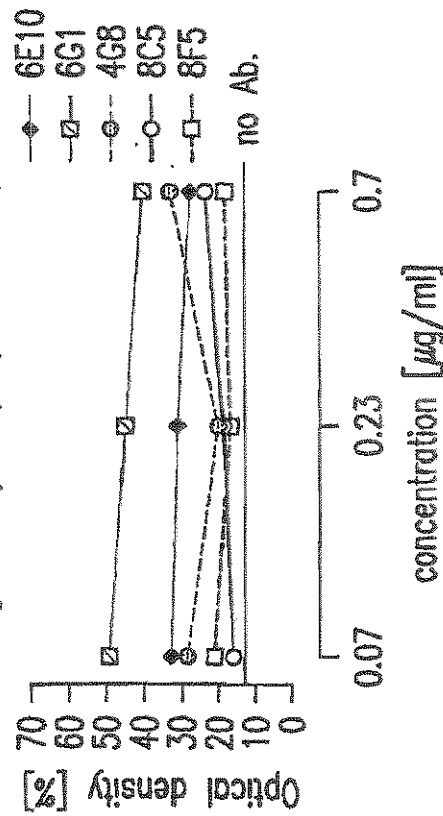


FIG.7E

Binding to amyloid plaques in AD (RZ16)

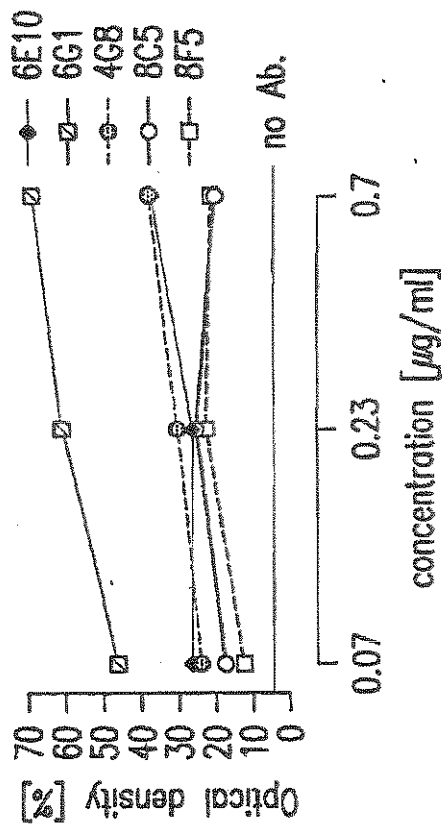


FIG.7G

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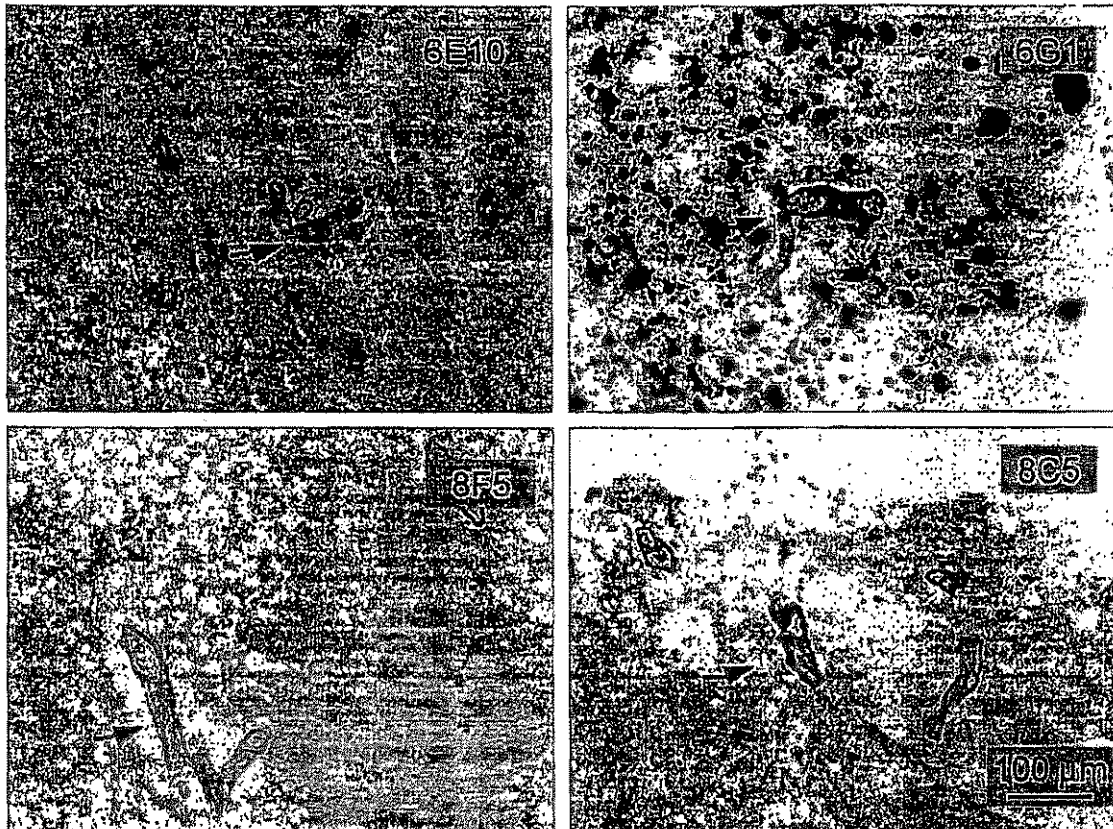
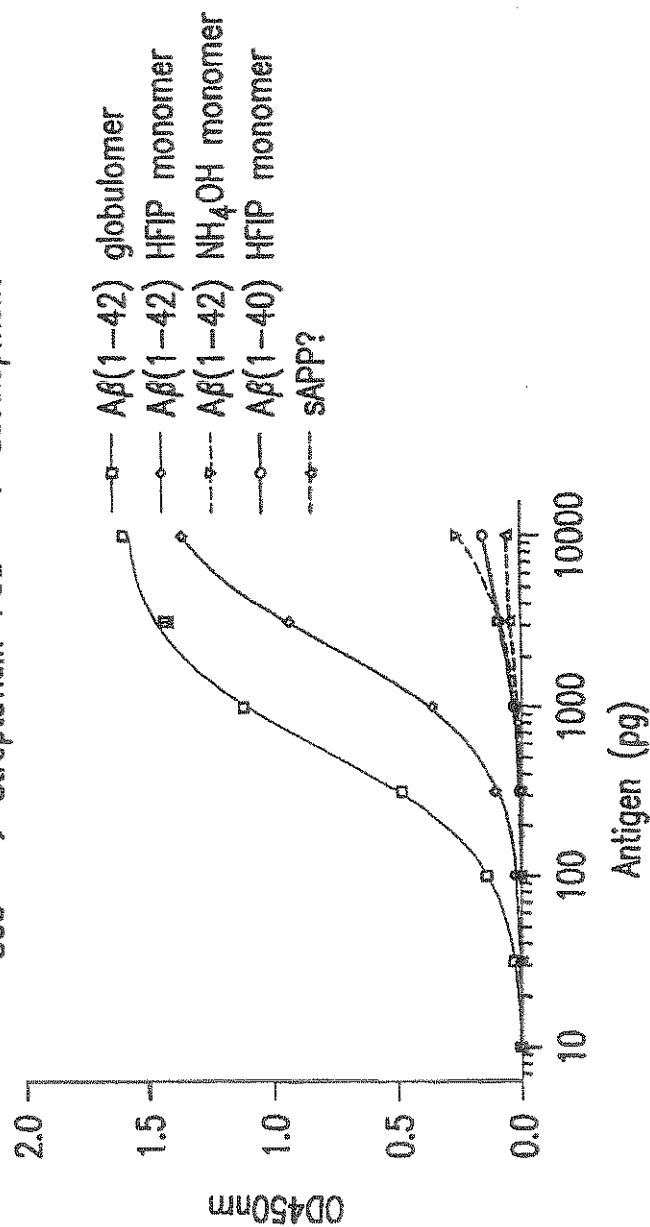


FIG.7H

Sandwich-Elisa of Several A β -Forms with Biotinylated
Coated Clones

coated anti-A β clone 6G1 --> A β -Forms --> biotinylated clone
8C5 --> Streptavidin-POD --> development



	A β (1-42) globulomer	A β (1-42) HFIP monomer	A β (1-42) NH ₄ OH monomer	A β (1-40) HFIP monomer	sAPP?
BOTTOM	0.0003317	0.005757	-0.008508	0.0002754	0.0003000
TOP	1.601	1.545	1.137	0.2455	0.06415
LOGEC50	2.755	3.370	4.505	3.794	3.237
HILLSLOPE	1.369	1.377	1.052	0.9842	1.197
EC50	568.2	2346	31991	6222	1725

FIG.8

VH 8C5

GAGGTGCAGTTGGTGGAGTCTGGGGGAGGCTTAGTGCAGCCTGGAGGGTCCC
TGAAACTCTCCTGTACAGCCTCTGGATTCACTTTCAGTAGCTATGGCATGTCT
TGGGTTGCCAGACTCCAGACAAGAGGCTGGAGTTGGTCGCAAGTATTAAAA
ATAATGGTGGTAGCACCTATTATCCAGACAGTTTGAAGGGCCGATTCACCAT
CTCCAGAGACAATGCCAAGAACACCCTGTACCTGCAAATGAGCAGTCTGAAG
TCTGAGGACACAGCCATGTATTATTGTGCAAGTGGGGATTACTGGGGCCAAG
GCACCACTCTCACAGTCTCCTCA (SEQ ID NO:11)

FIG.9A

VL 8C5

GATGTTGTGATGACCCAACTCCACTCTCCCTGCCTGTCAGTCTTGGAGATCA
AGCCTCCATCTCTTGCGAGATCTAGTCAGAGCCTTGACACAGTAATGGAGAC
ACCTTTTTACATTGGTACCTGCAGAAGCCAGGCCAGTCTCCAAAGCTCCTGAT
CTACAAAGTTTTCAACCGATTTTCTGGGGTCCAGACAGGTTCAGTGGCAGTG
GATCAGGGACAGATTTCACTCAAGATCAGCAGAGTGGAGGCTGAGGATCT
GGGAATTTATTTCTGCTCTCAGAGTATACATGTTCCGTGGACGTTCCGTGGAG
GCACCAAGCTGGAAATCAAACGG (SEQ ID NO:12)

FIG.9B

VH_8C5

EVQLVESGGGLVQPGGSLKLSCTASGFTFSSYGMSWVRQTPDKRLELVASIKNN
GGSTYYPDLSLKGRFTISRDNAKNTLYLQMSSLKSEDTAMYYCASGDYWGQGT
LTVSS (SEQ ID NO:19)

CDR1 (VH) = SYGMS (SEQ ID NO:13)

CDR2 (VH) = SIKNNGGSTYYPDLSKG (SEQ ID NO:14)

CDR3 (VH) = SGDY (SEQ ID NO:15)

FIG.10A

VL_8C5

DVVMQTQPLSLPVSLGDQASISCRSSQSLVHSNGDTFLHWYLQKPGQSPKLLIYK
VSNRFSGVPRFSGSGSDFTLKISRVEAEDLGIYFCSQSIHVPWTFGGGTKLEI
KR (SEQ ID NO:20)

CDR1 (VL) = RSSQSLVHSNGDTFLH (SEQ ID NO:16)

CDR2 (VL) = KVSNRFS (SEQ ID NO:17)

CDR3 (VL) = SQSIHVPWT (SEQ ID NO:18)

FIG.10B