

Fig. 1

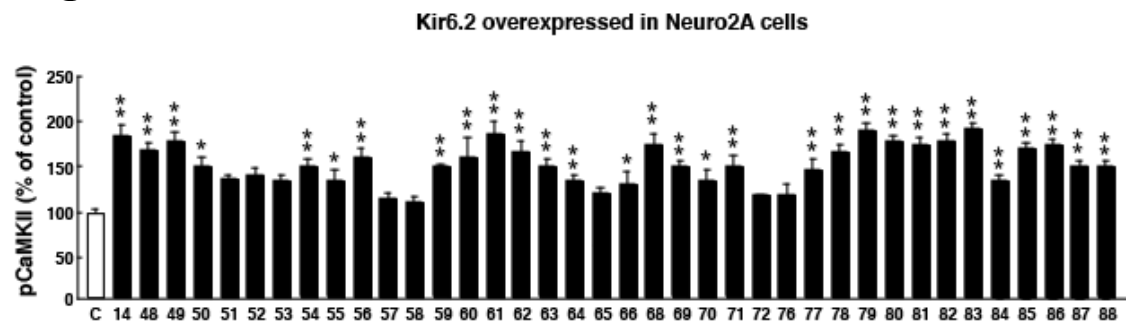


Fig. 2-1

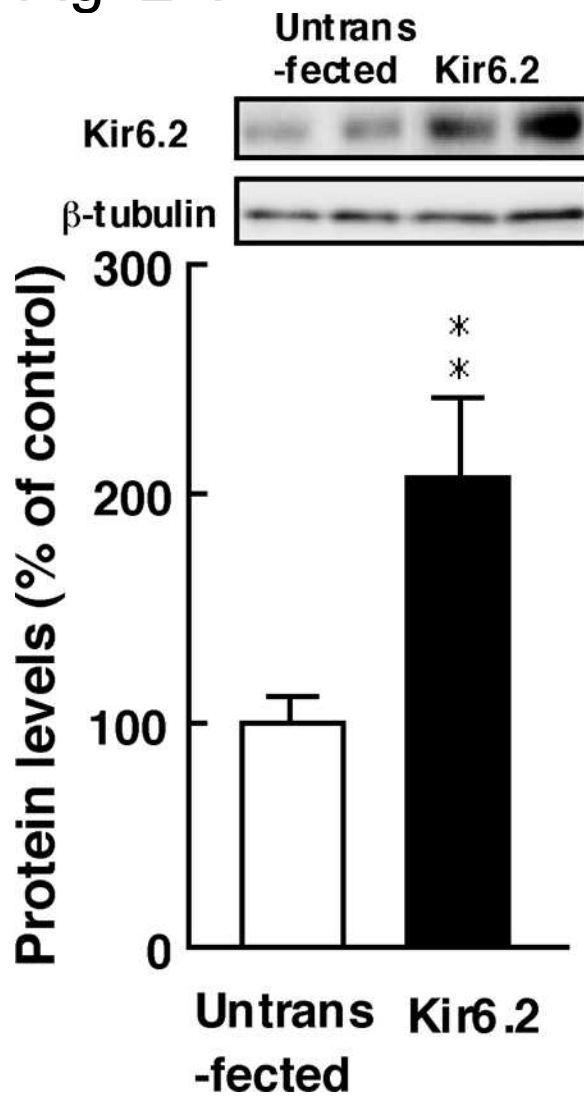


Fig. 2-2

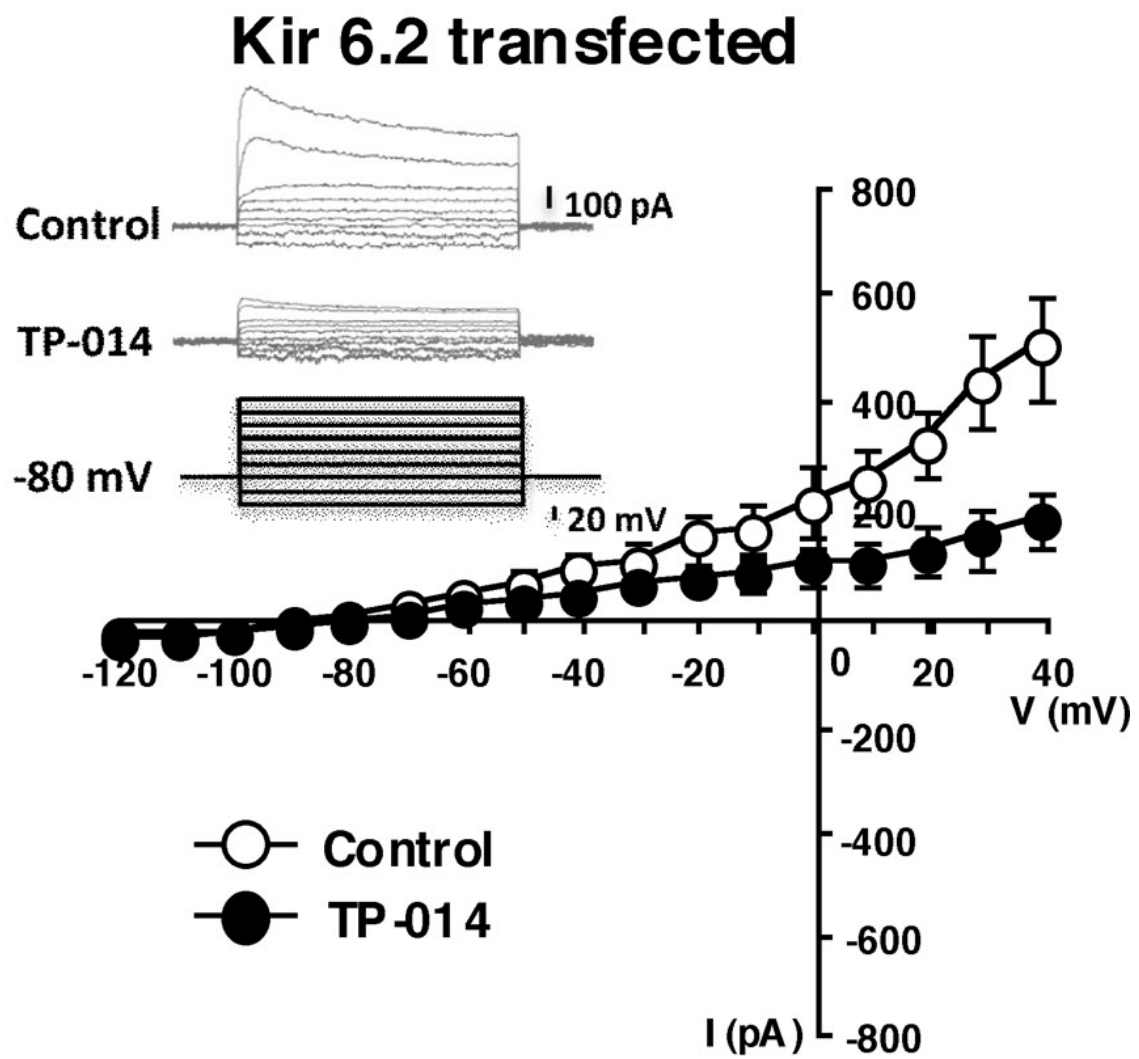


Fig. 3-1

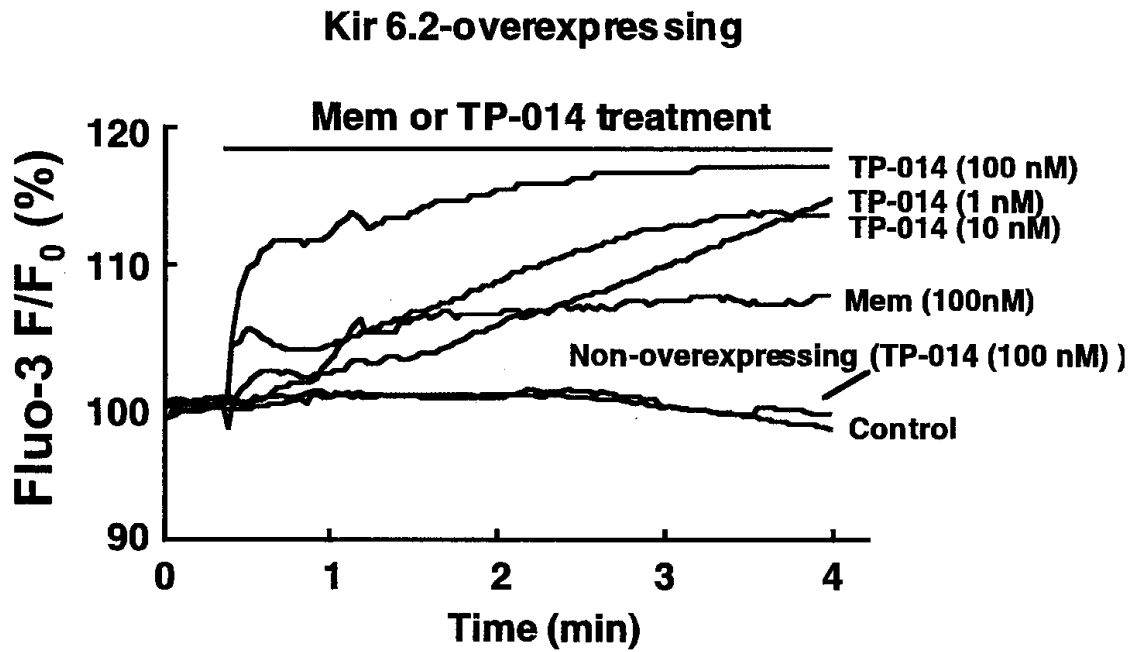


Fig. 3-2

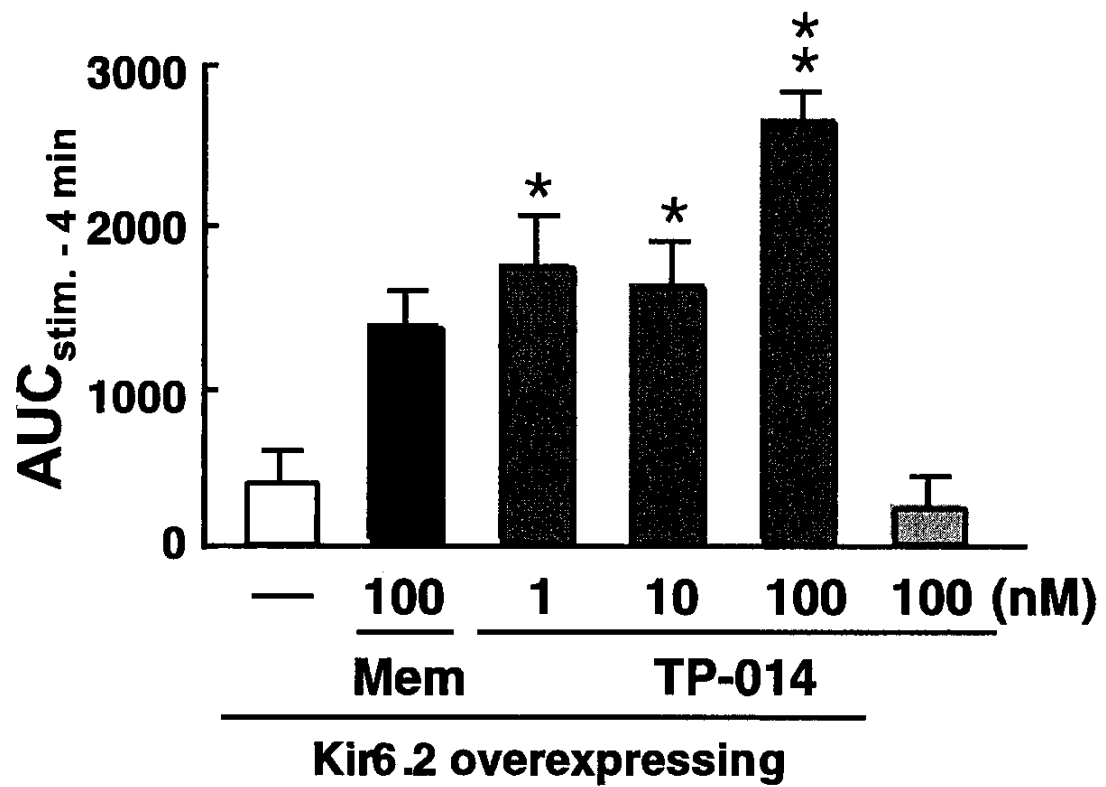


Fig. 4-1

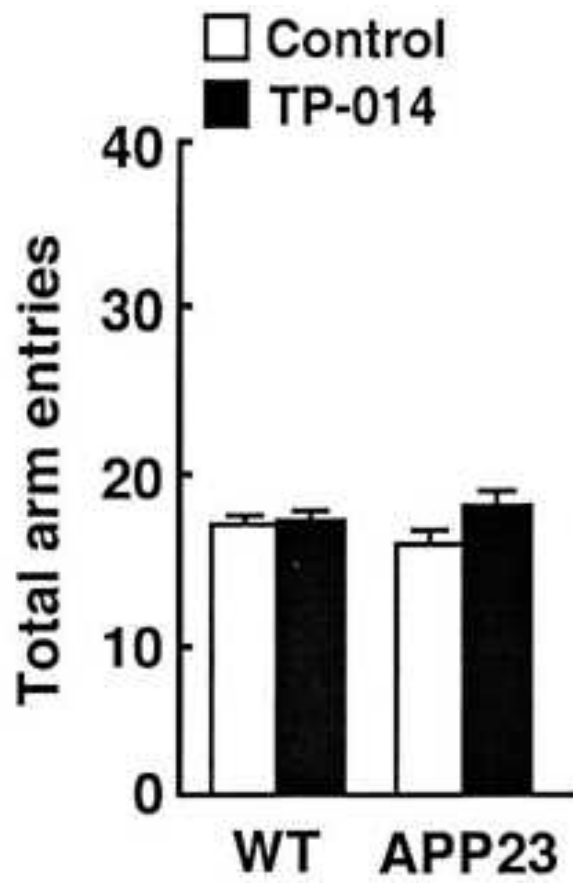


Fig. 4-2

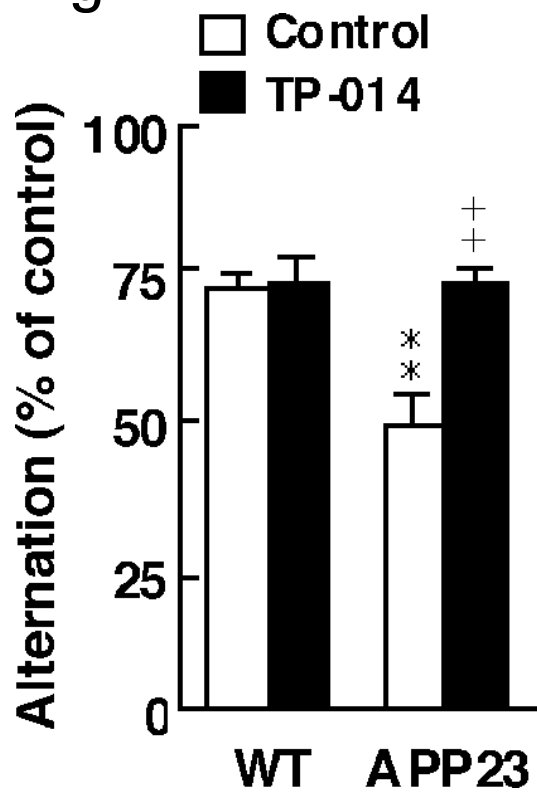


Fig. 4-3

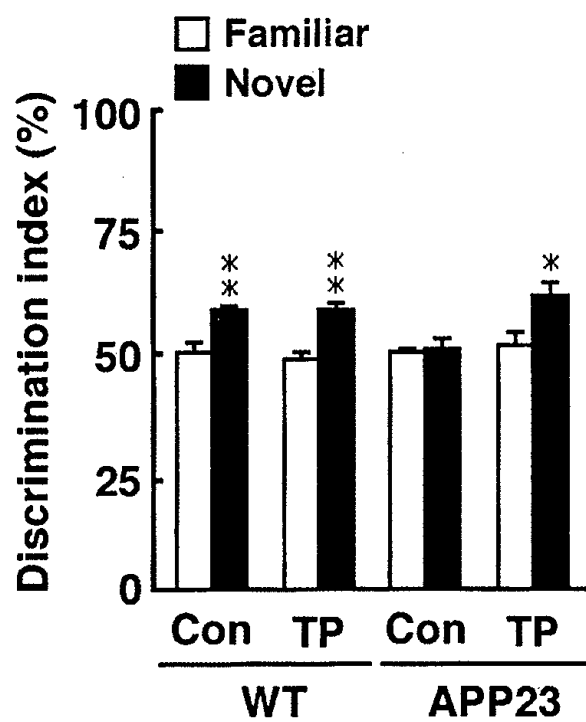


Fig. 4-4

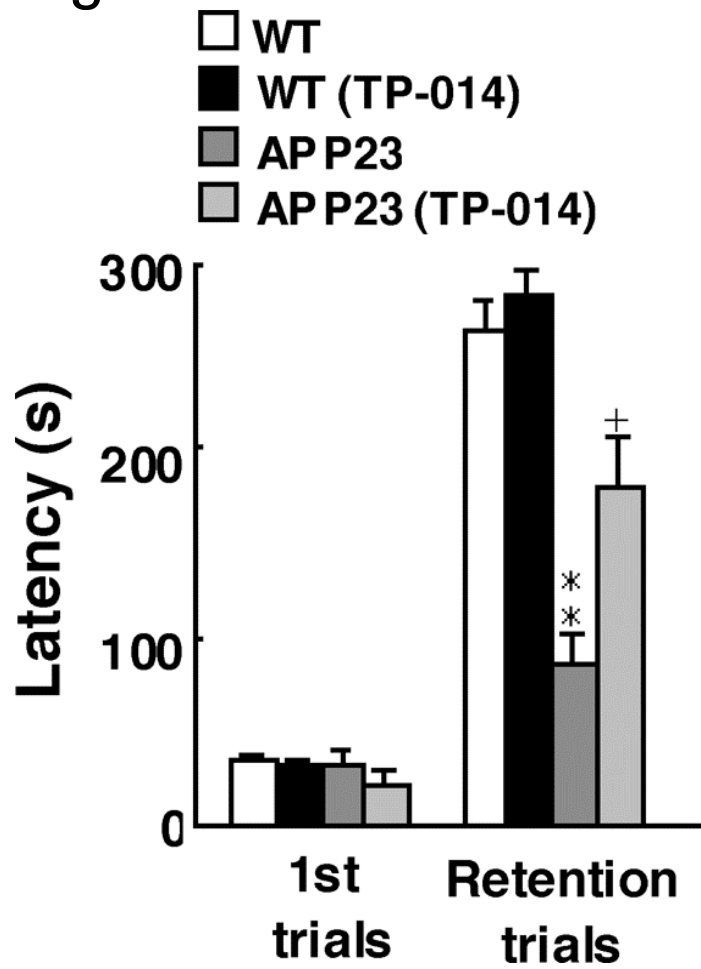


Fig. 4-5

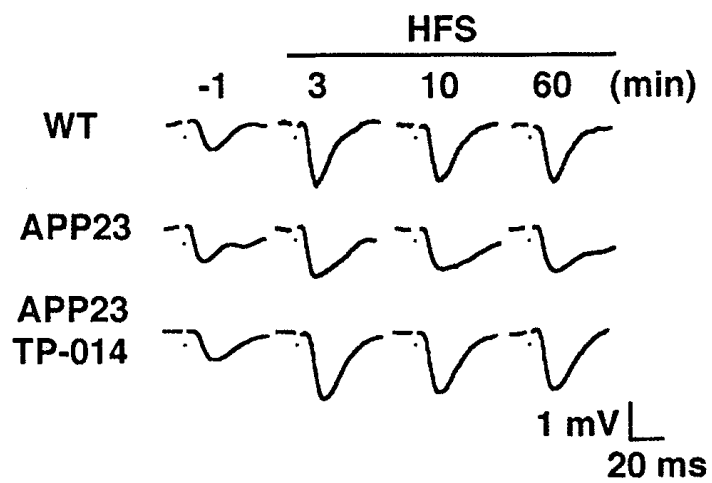


Fig. 4-6

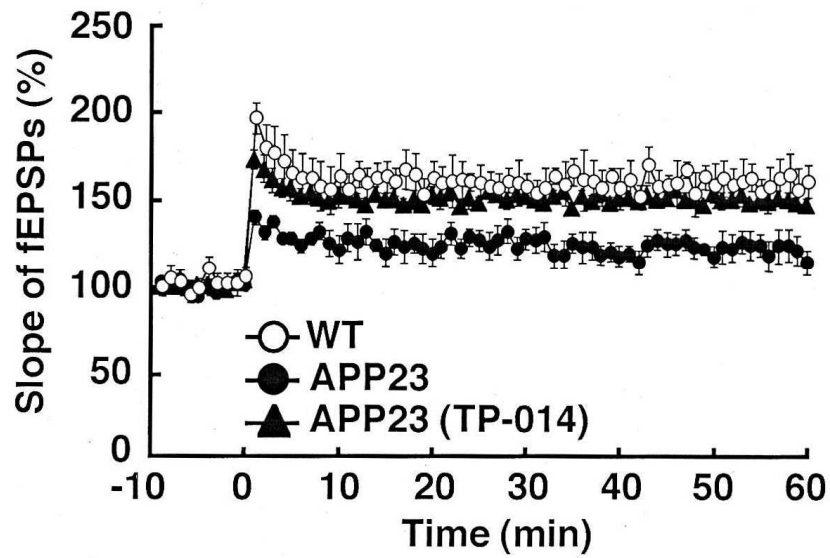


Fig. 4-7

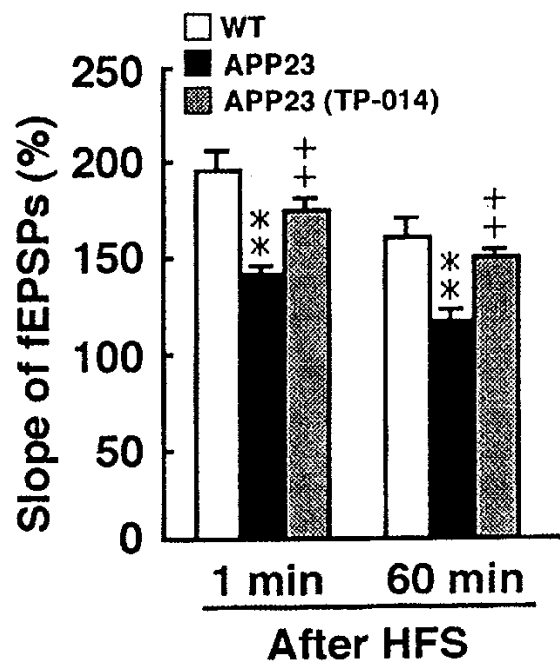


Fig. 5-1

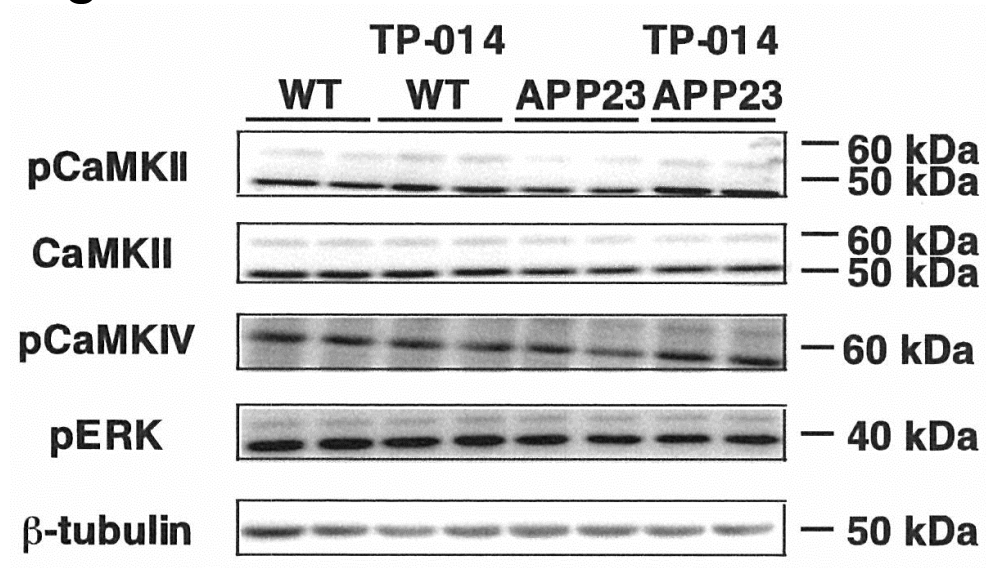


Fig. 5-2

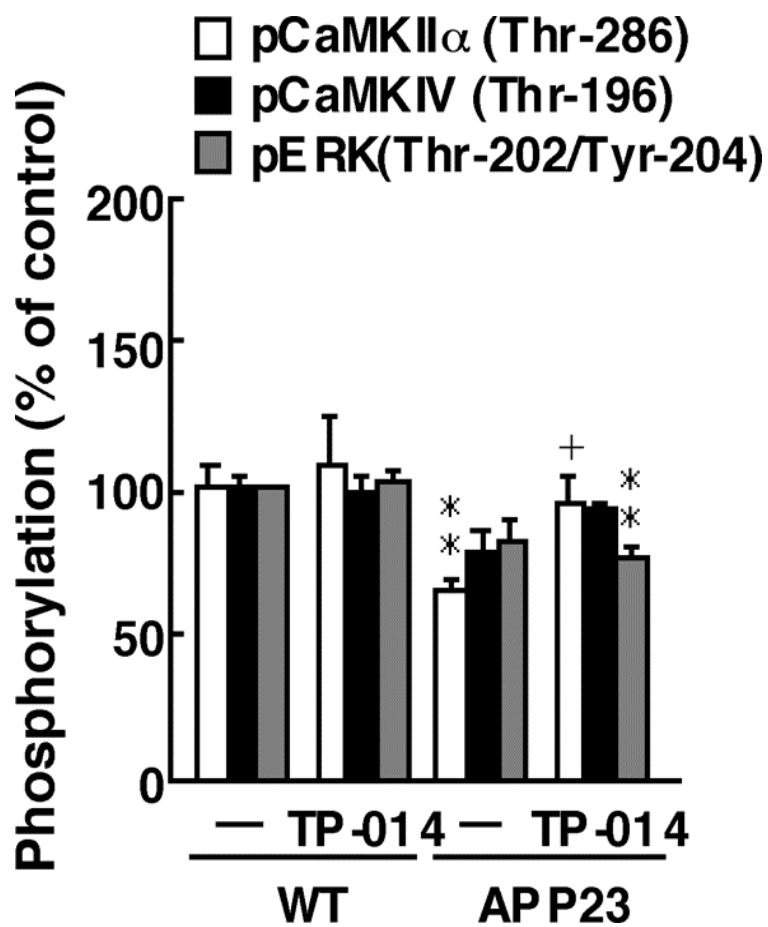


Fig. 5-3

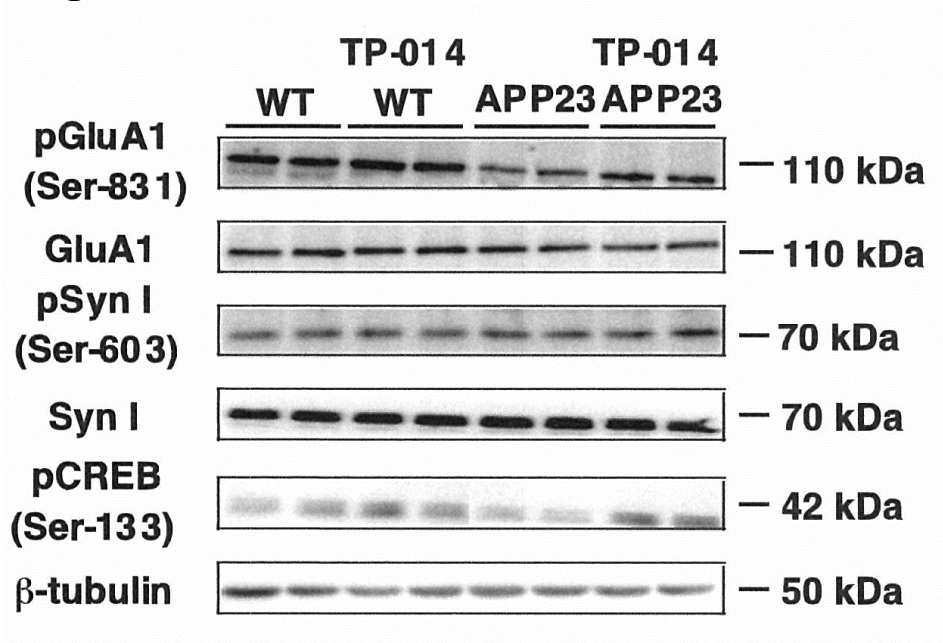


Fig. 5-4

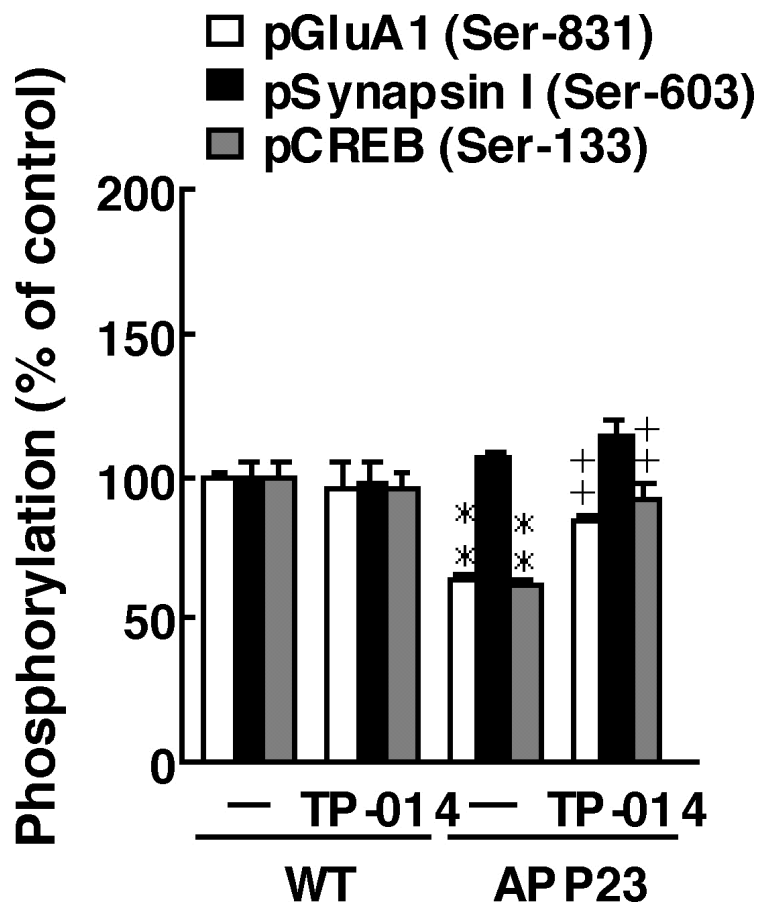


Fig. 6-1

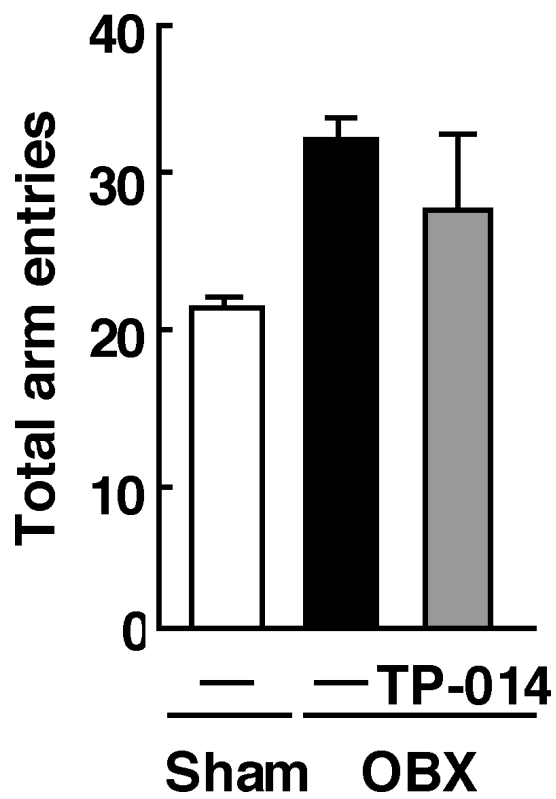


Fig. 6-2

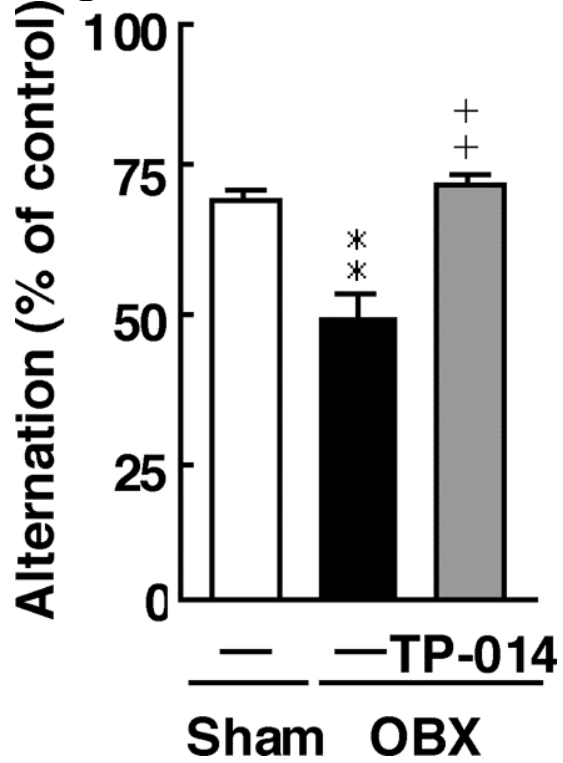


Fig. 6-3

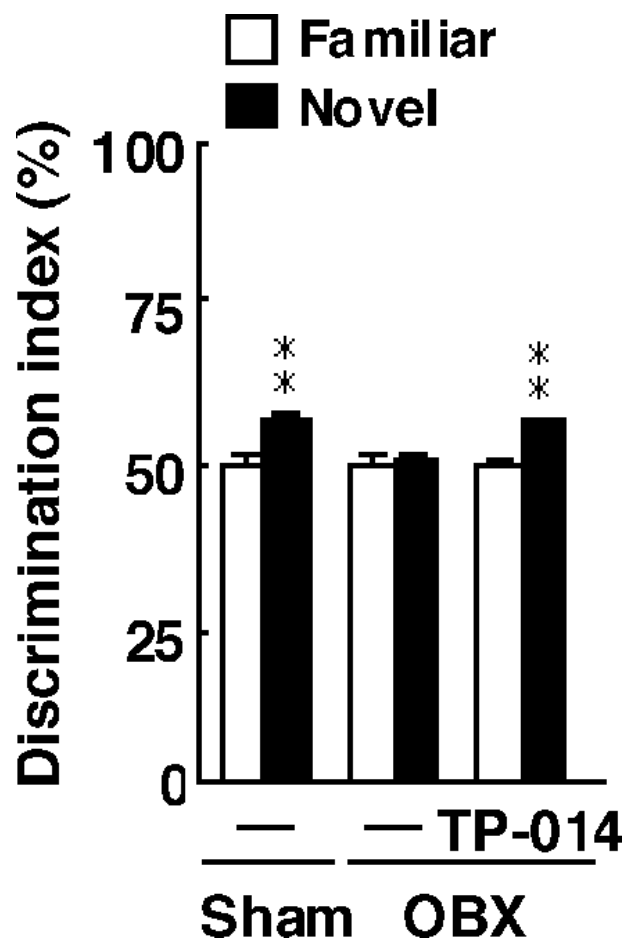


Fig. 6-4

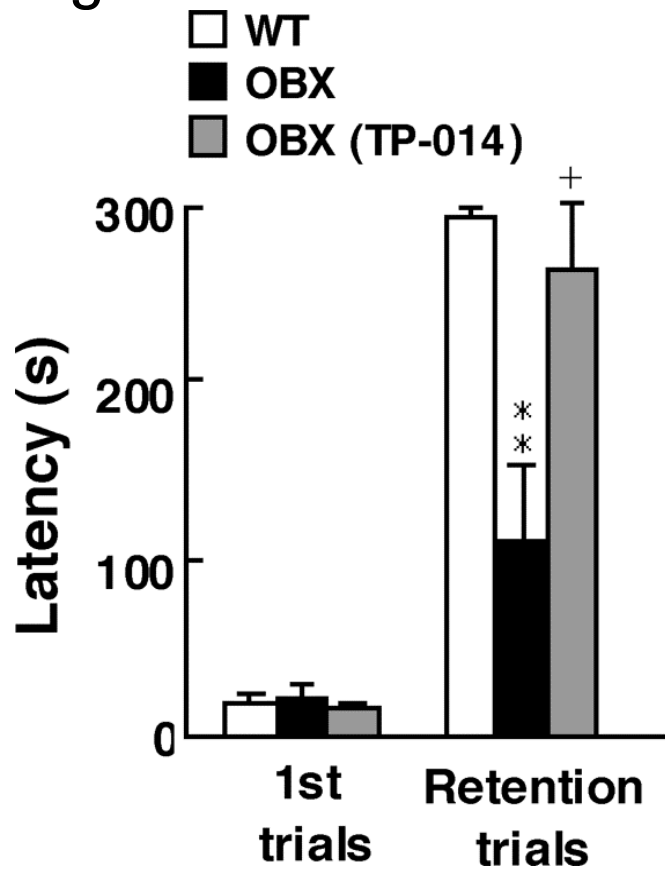


Fig. 6-5

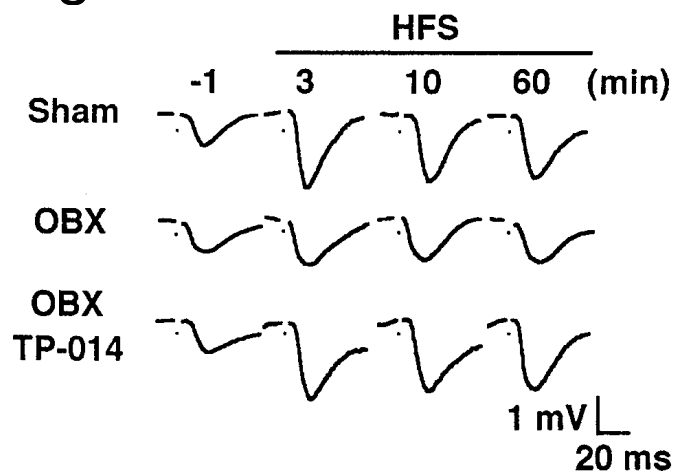


Fig. 6-6

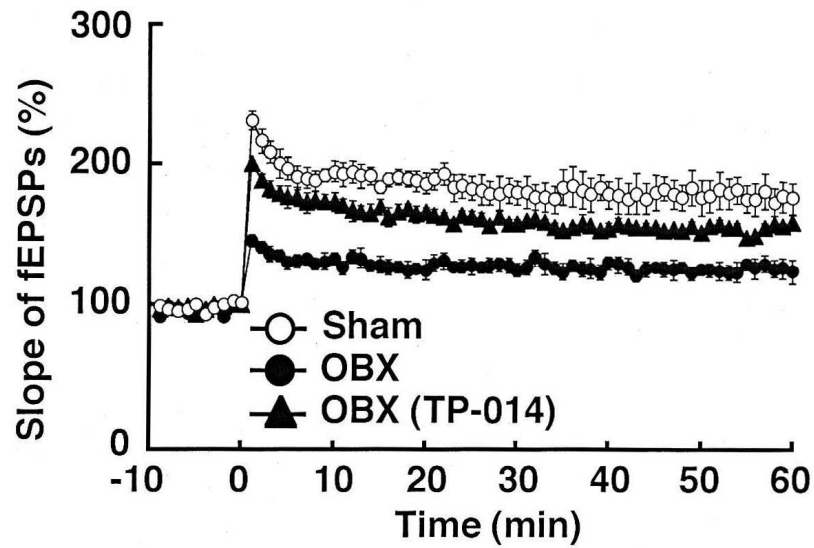


Fig. 6-7

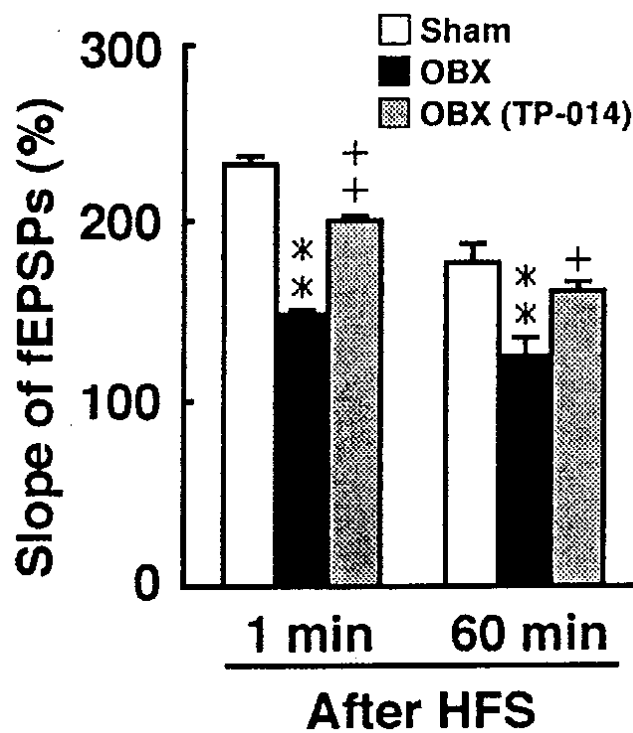


Fig. 7-1

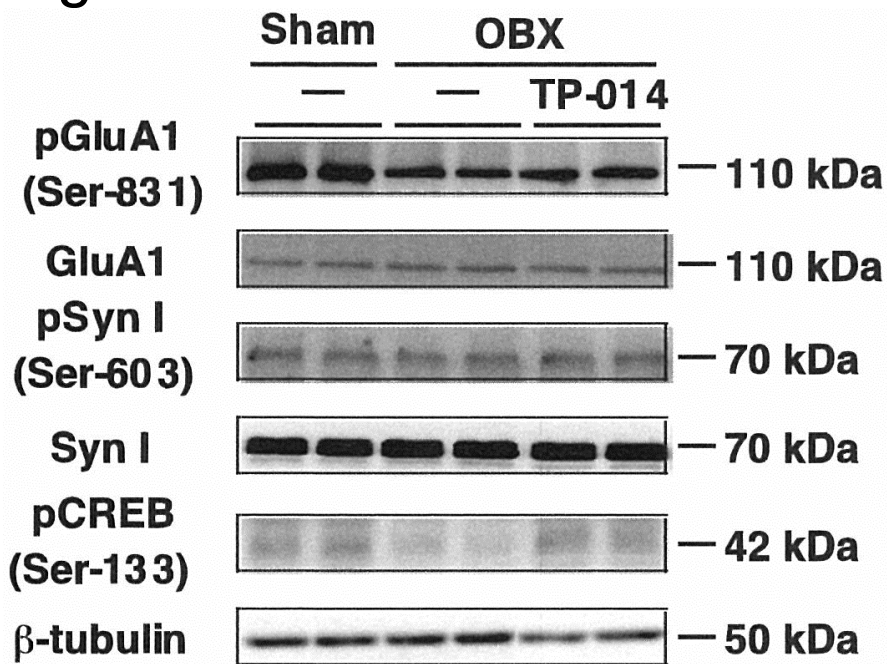


Fig. 7-2

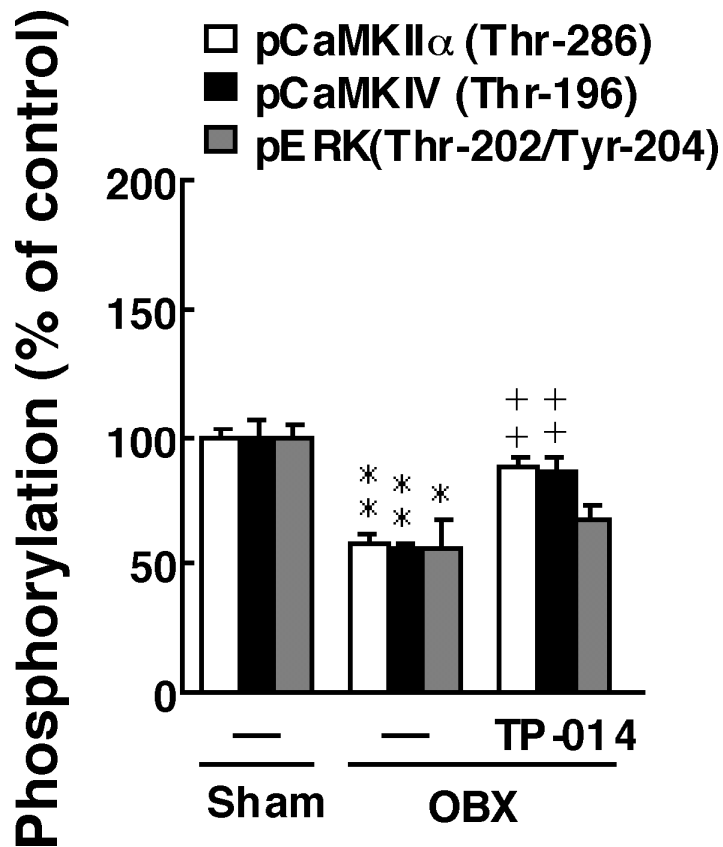


Fig. 7-3

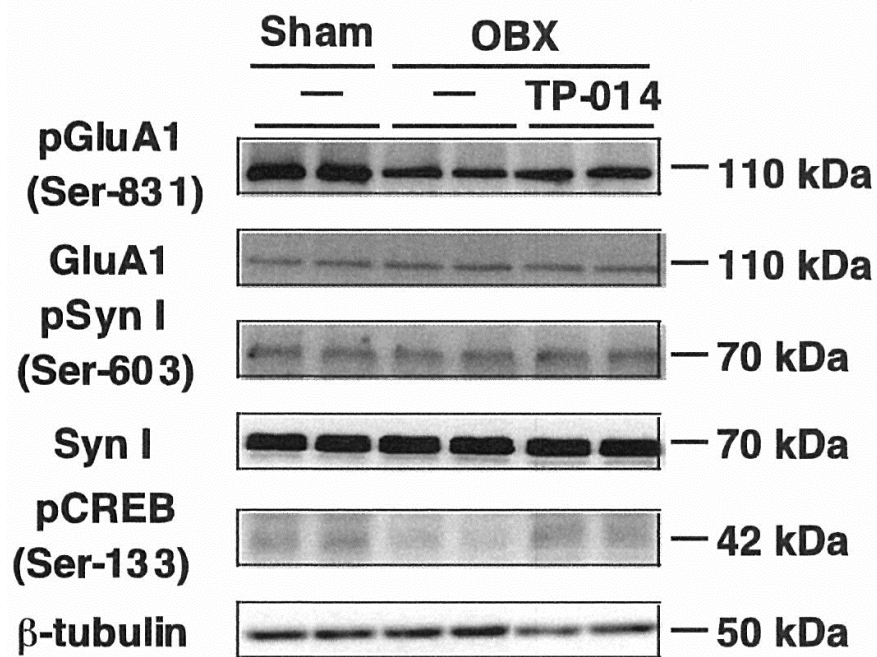


Fig. 7-4

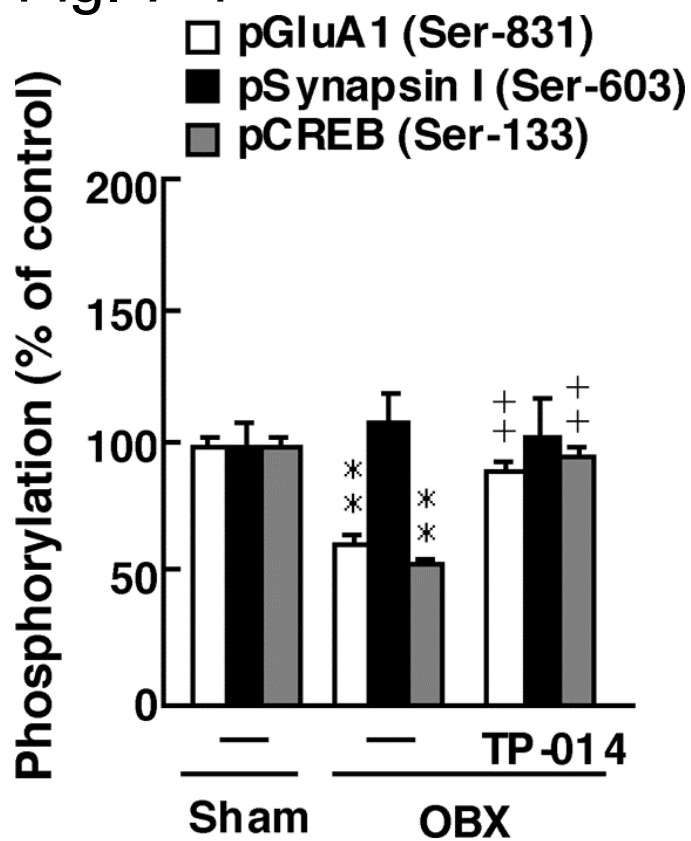


Fig. 8-1

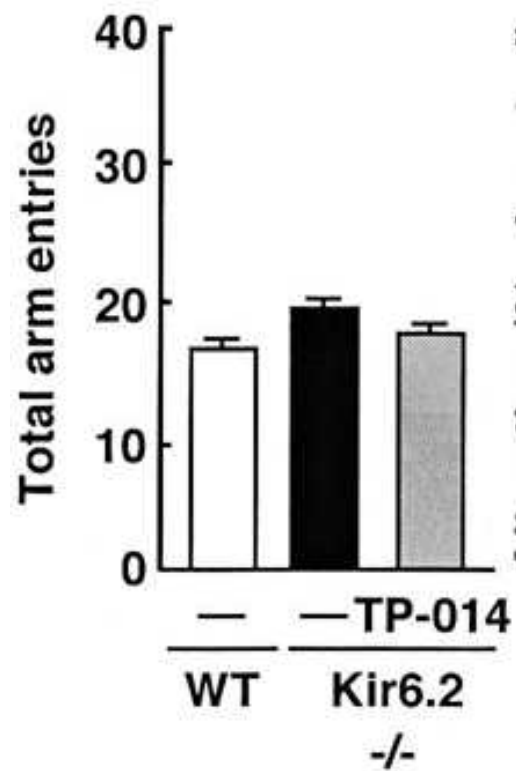


Fig. 8-2

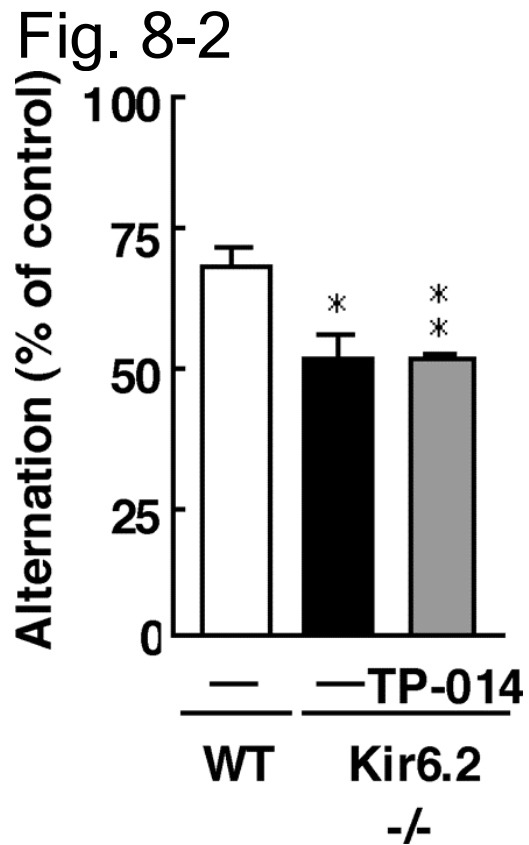


Fig. 8-3

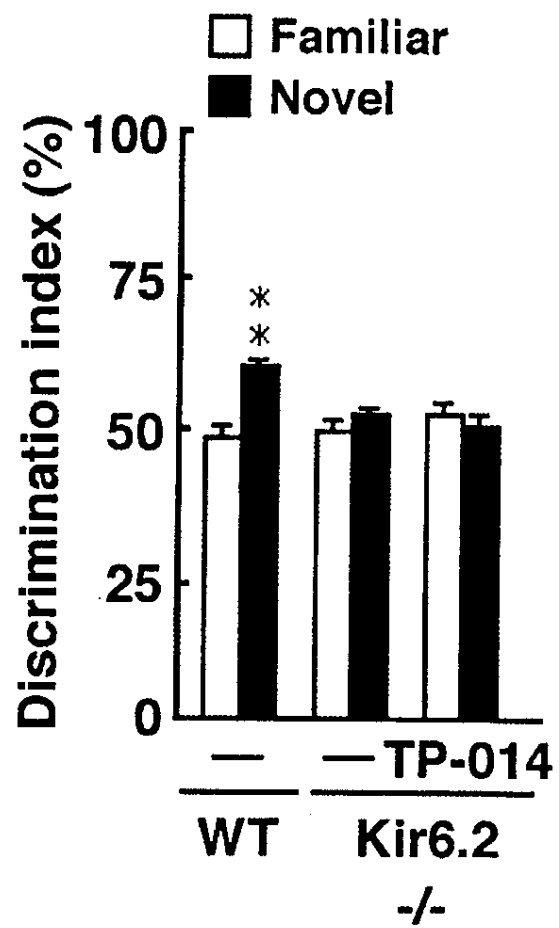


Fig. 8-4

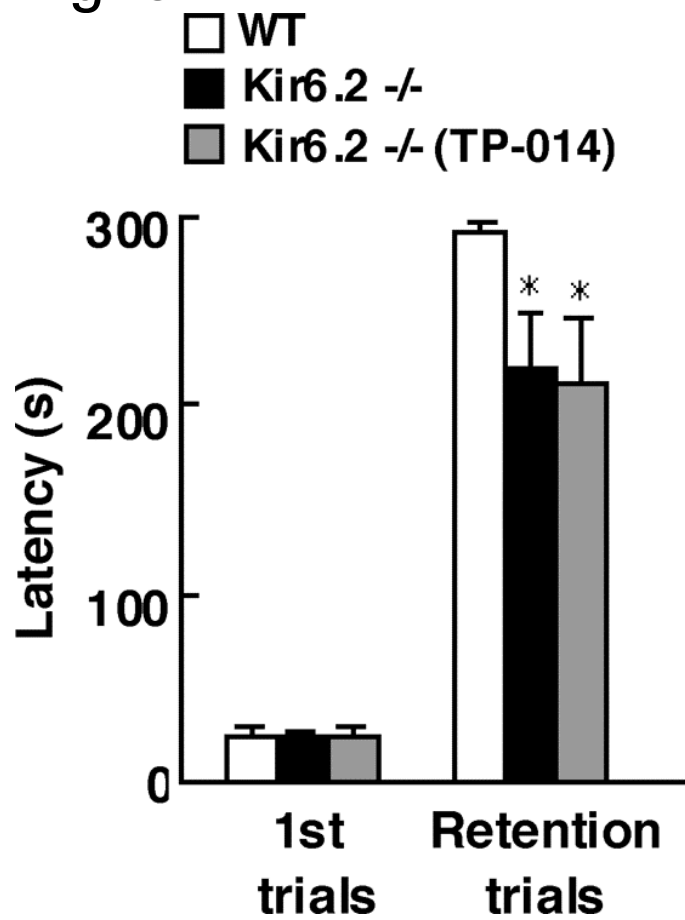


Fig. 8-5

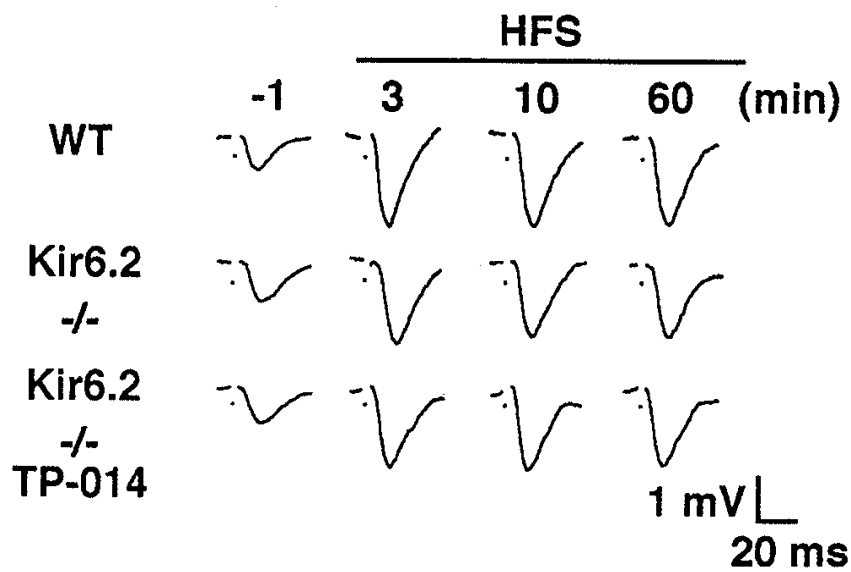


Fig. 8-6

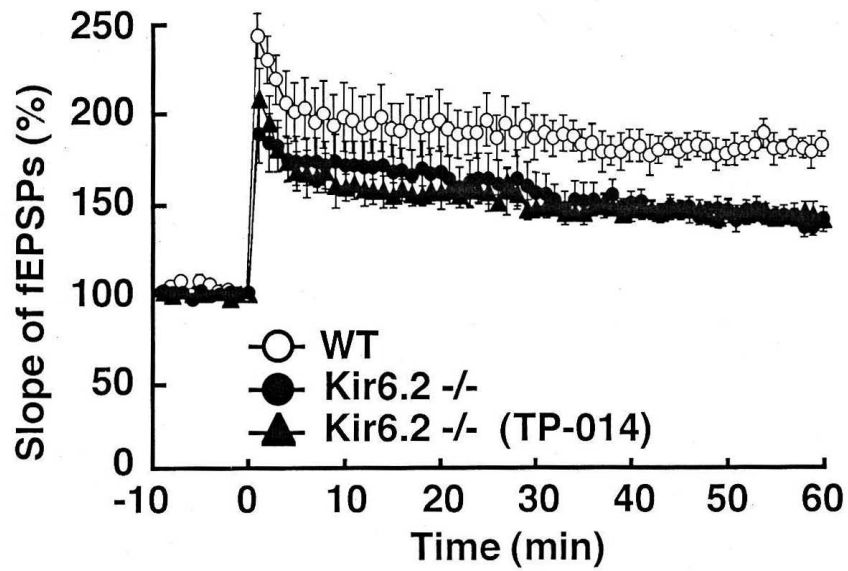


Fig. 8-7

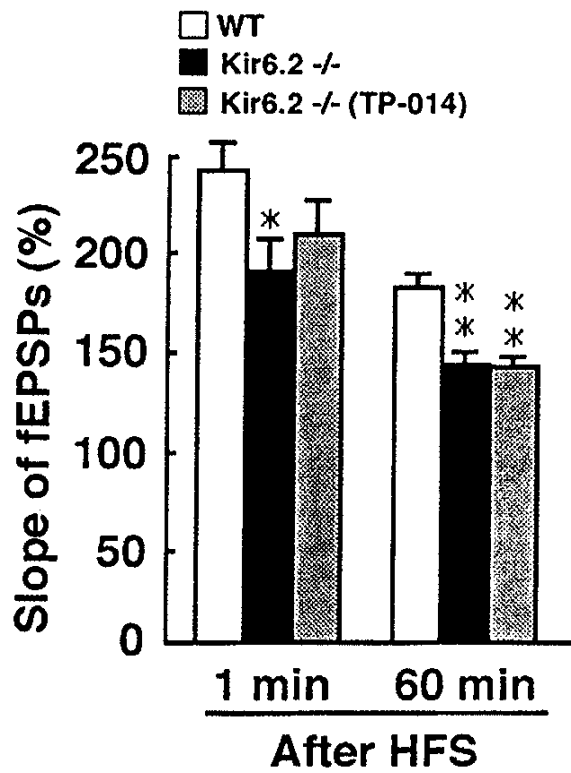


Fig. 9-1

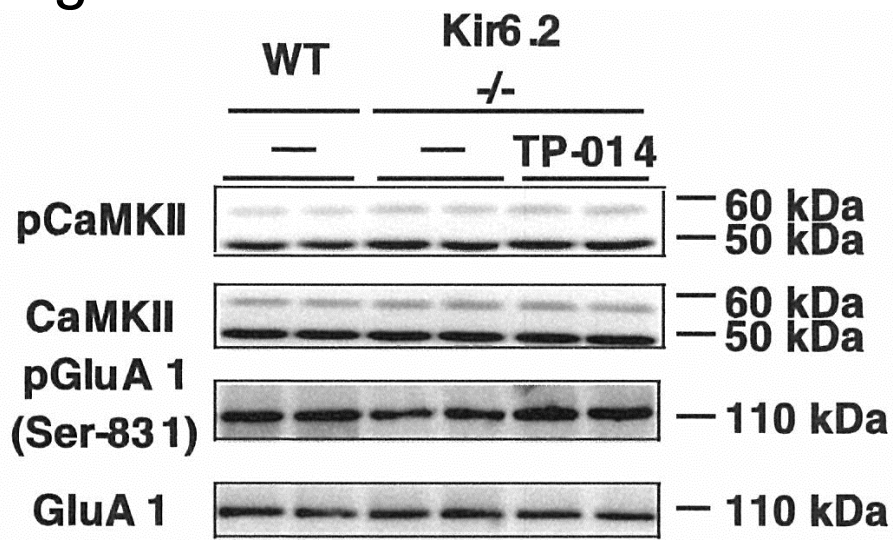


Fig. 9-2

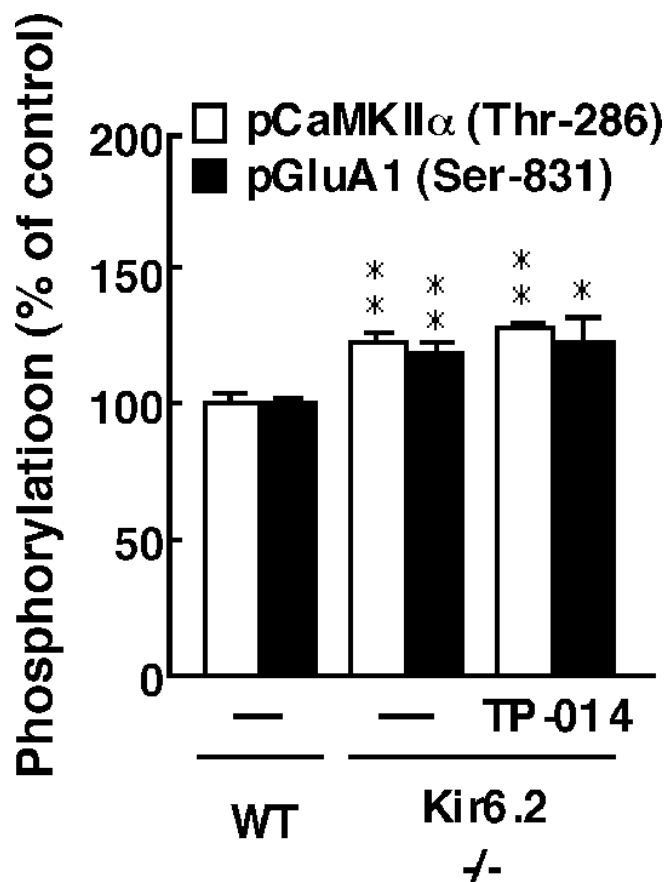


Fig. 10

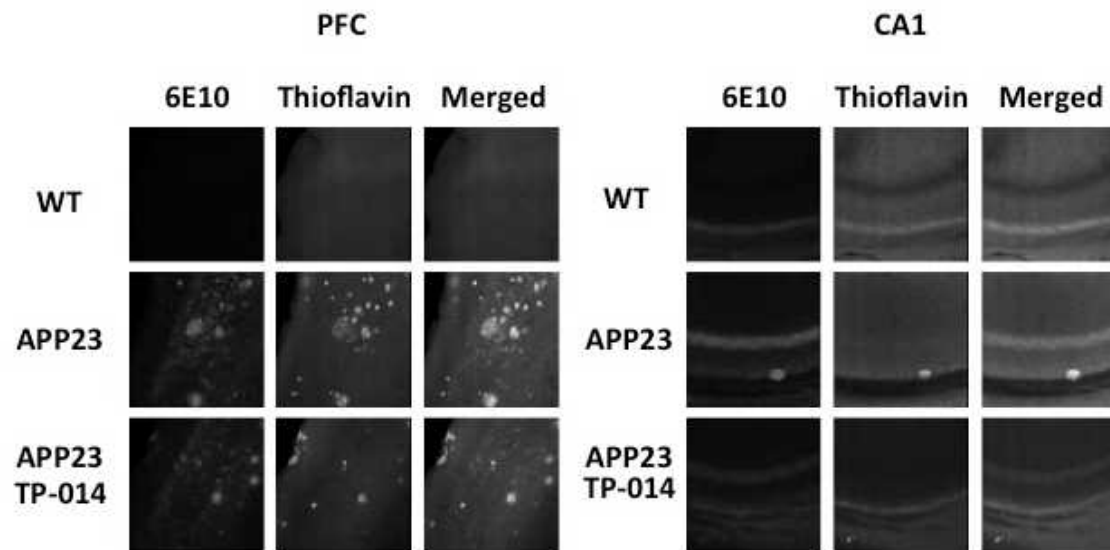


Fig. 11-1

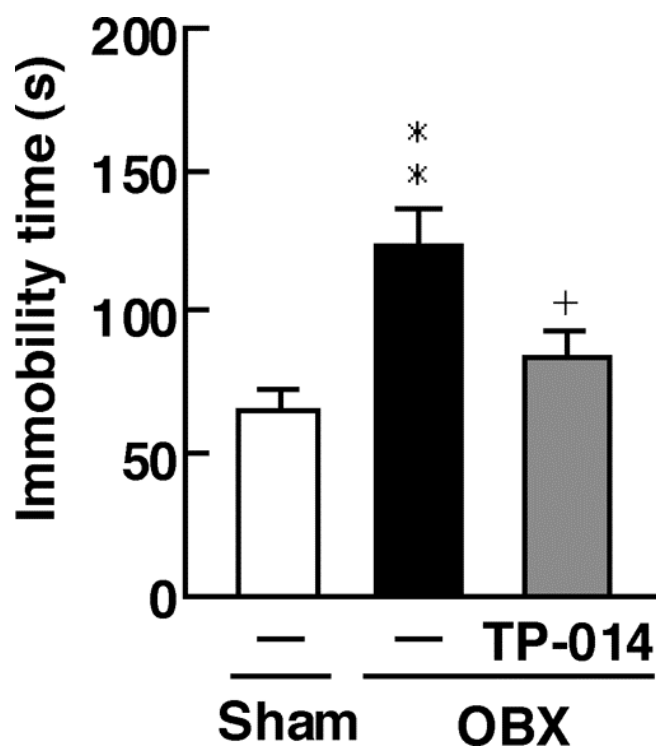


Fig. 11-2

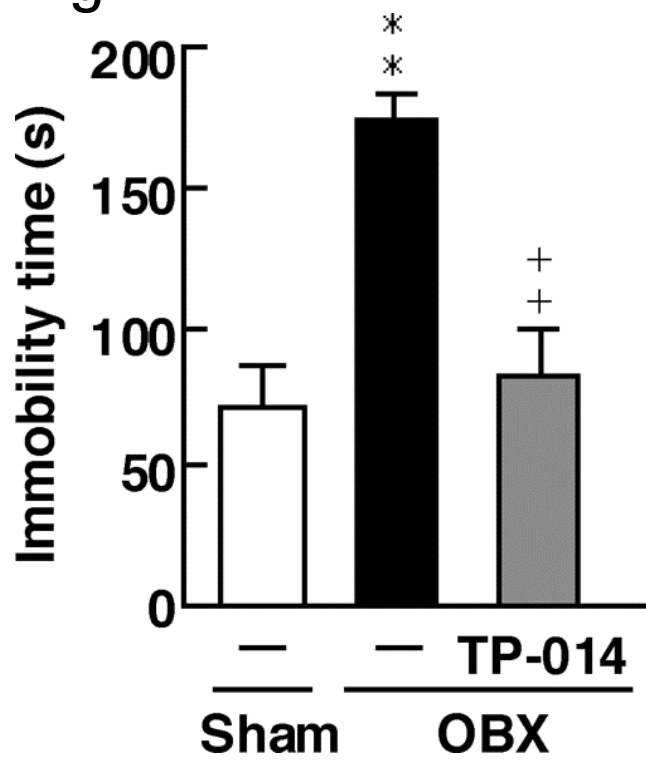


Fig. 12-1

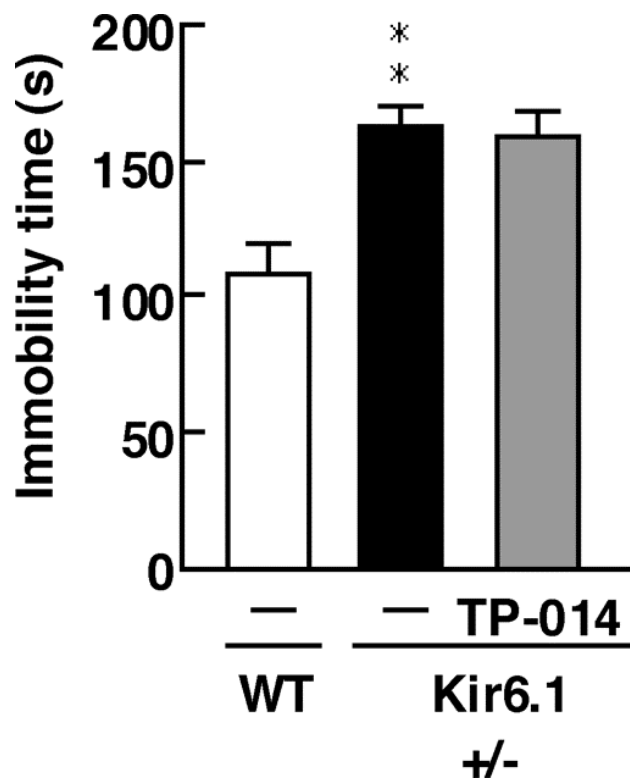


Fig. 12-2

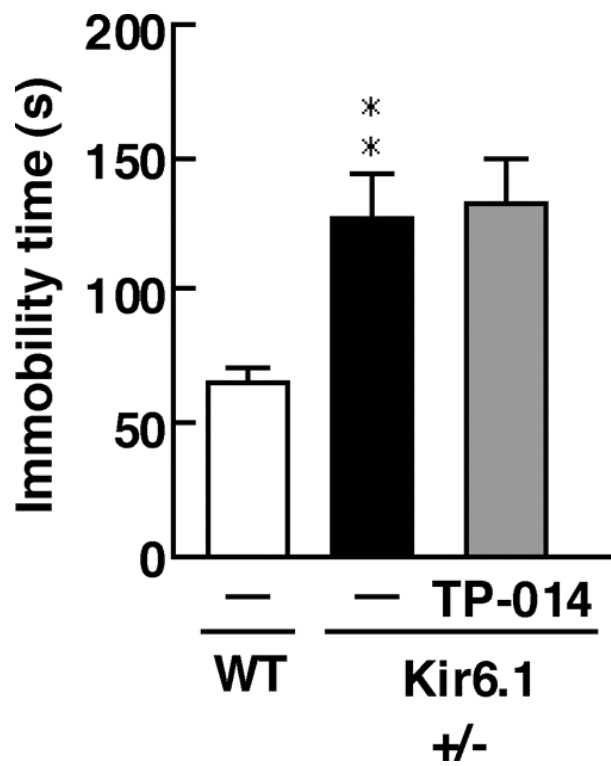


Fig. 13-1

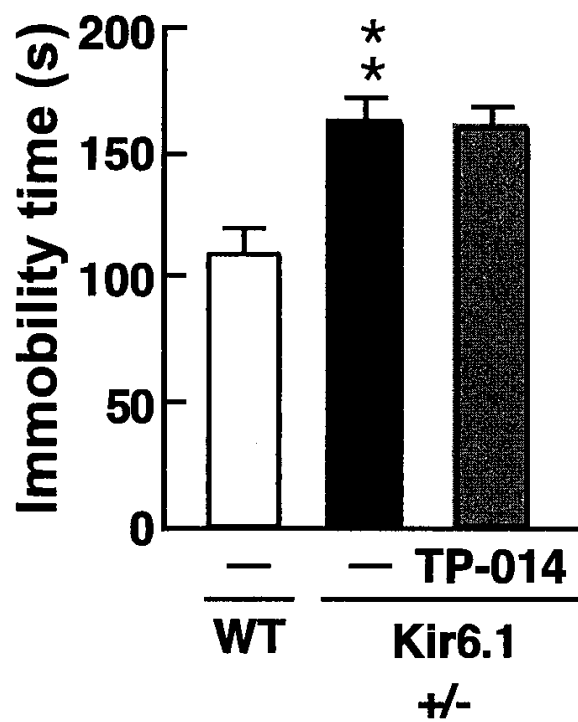


Fig. 13-2

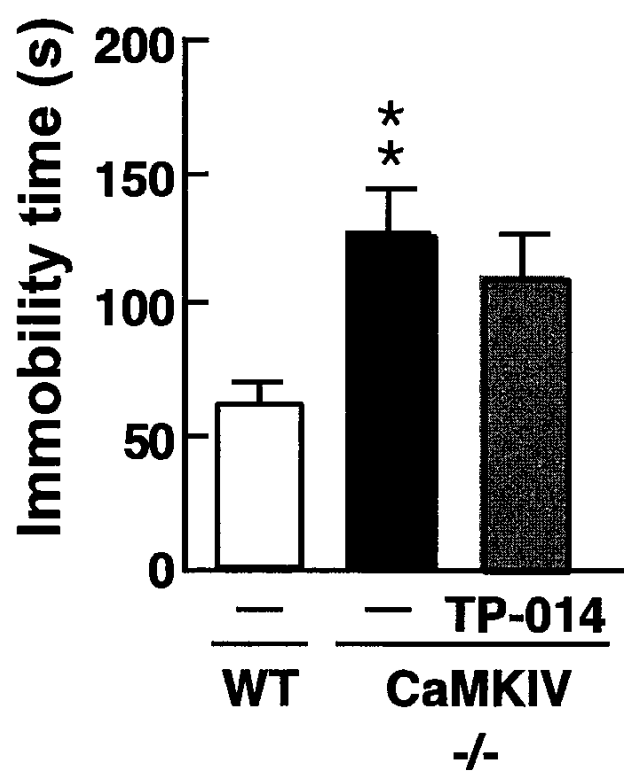


Fig. 14

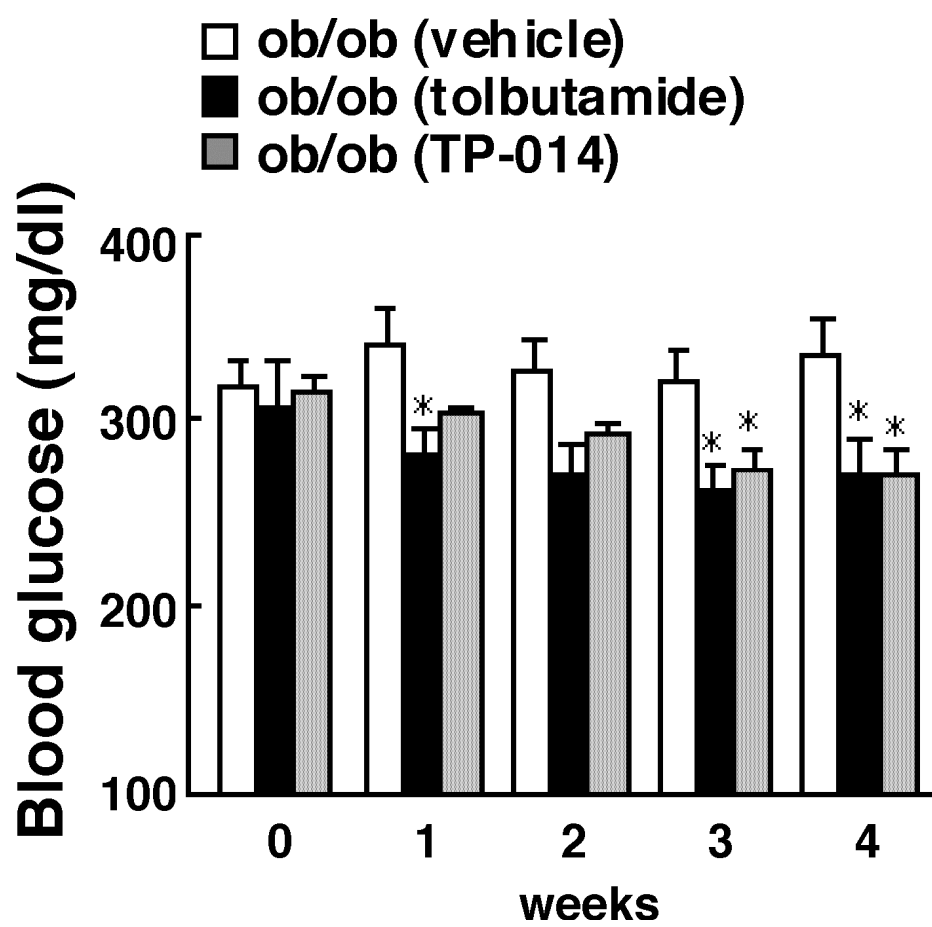


Fig. 15

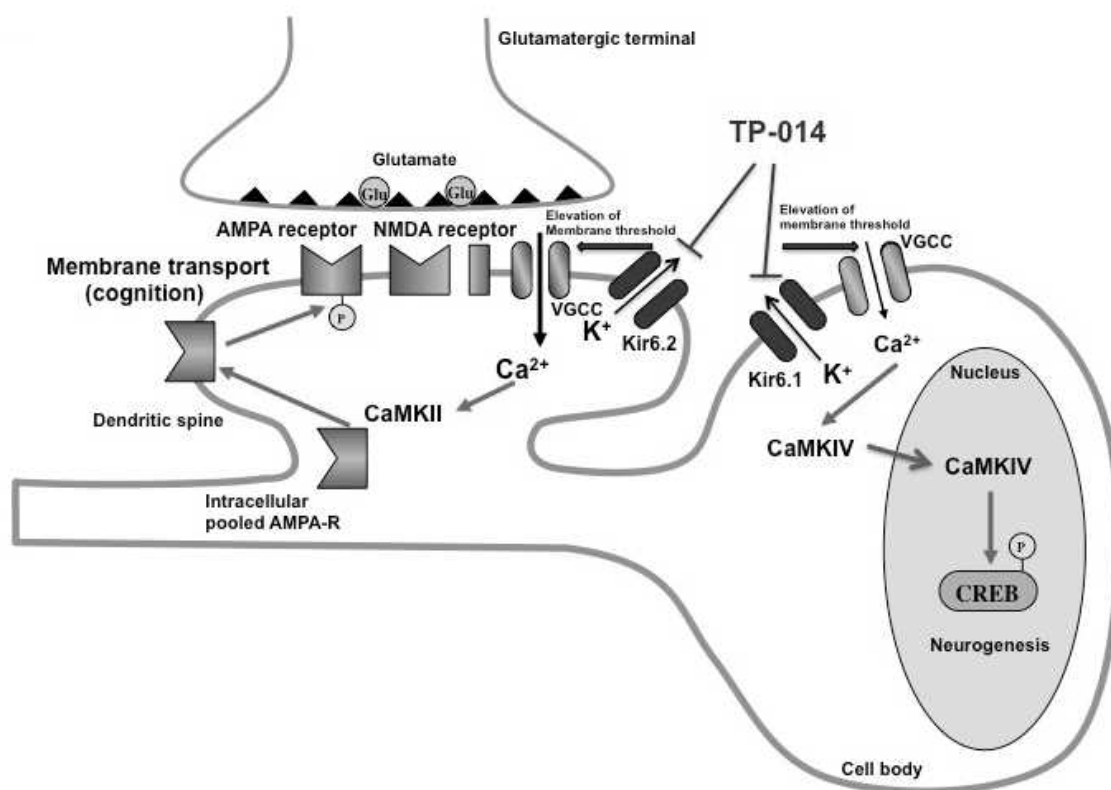


Fig. 16

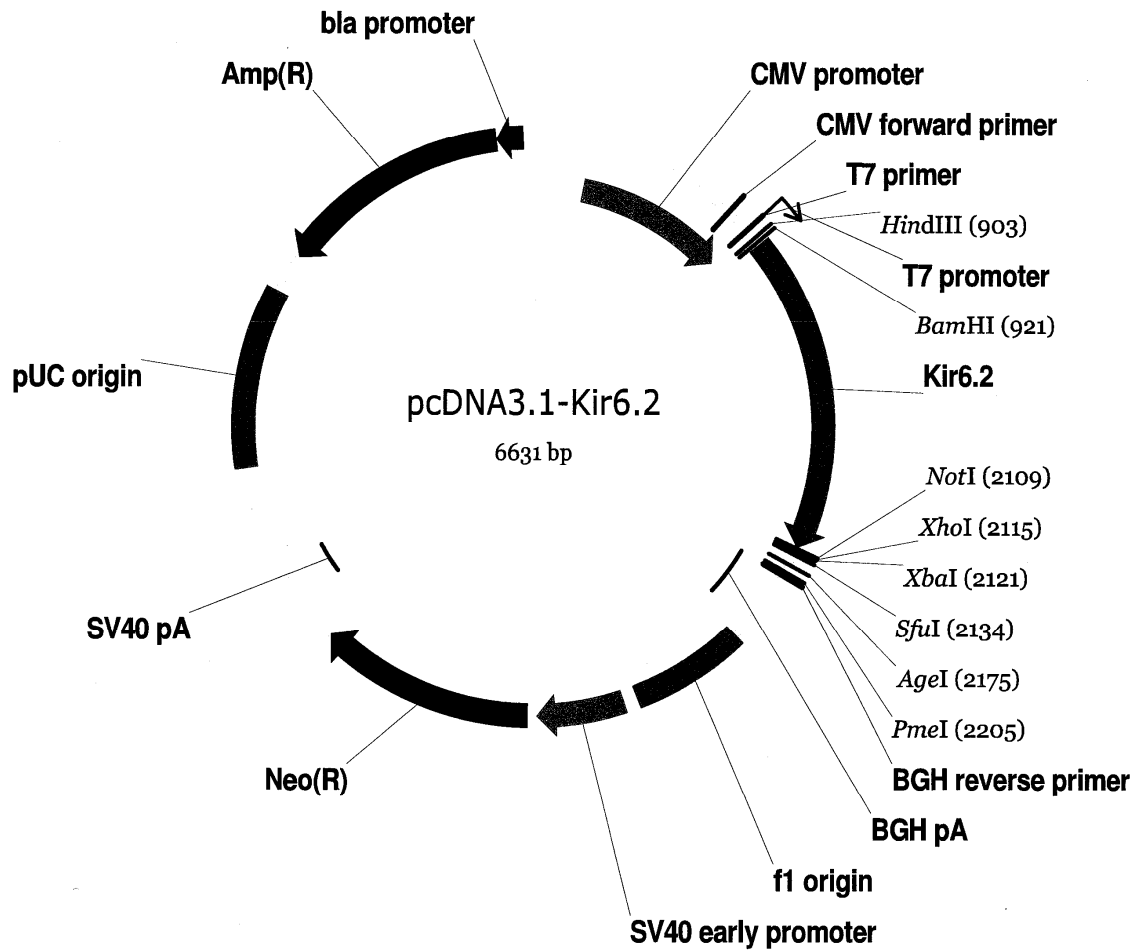


Fig. 17-1

1	GACGGATCGG	GAGATCTCCC	GATCCCCTAT	GGTGCACTCT	CAGTACAATC	TGCTCTGATG
61	CCGCATAGTT	AAGCCAGTAT	CTGCTCCCTG	CTTGTTGTGT	GGAGGTCGCT	GAGTAGTGCG
121	CGAGCAAAAT	TTAAGCTACA	ACAAGGCAAG	GCTTGACCGA	CAATTGCATG	AAGAATCTGC
CMV promoter						
181	TTAGGGTTAG	GCGTTTTGCG	CTGCTTCGCG	ATGTACGGGC	CAGATATACG	CGTTGACATT
CMV promoter						
241	GATTATTGAC	TAGTTATTAA	TAGTAATCAA	TTACGGGGTC	ATTAGTTCAT	AGCCCATATA
CMV promoter						
301	TGGAGTTCCG	CGTTACATAA	CTTACGGTAA	ATGGCCCCGC	TGGCTGACCG	CCCAACGACC
CMV promoter						
361	CCCGCCCAT	GACGTCAATA	ATGACGTATG	TTCCCATAGT	AACGCCAATA	GGGACTTTCC
CMV promoter						
421	ATTGACGTCA	ATGGGTGGAC	TATTTACGGT	AAACTGCCCA	CTTGGCAGTA	CATCAAGTGT
CMV promoter						
481	ATCATATGCC	AAGTACGCCC	CCTATTGACG	TCAATGACGG	TAAATGGCCC	GCCTGGCATT
CMV promoter						
541	ATGCCCAGTA	CATGACCTTA	TGGGACTTTC	CTACTTGGCA	GTACATCTAC	GTATTAGTCA
CMV promoter						
601	TCGCTATTAC	CATGGTGATG	CGGTTTTGGC	AGTACATCAA	TGGGCGTGGA	TAGCGGTTTG
CMV promoter						
661	ACTCACGGGG	ATTTCCAAGT	CTCCACCCCA	TTGACGTCAA	TGGGAGTTTG	TTTGGCACC
CMV forward primer						
CMV promoter						
721	AAAATCAACG	GGACTTTCCA	AAATGTCGTA	ACAACTCCGC	CCCATTGACG	CAAATGGGCG
CMV forward prime						
CMV promoter						
781	GTAGGCGTGT	ACGGTGGGAG	GTCTATATAA	GCAGAGCTCT	CTGGCTAACT	AGAGAACCCA
T7 primer						
CMV promoter						
T7 promoter						
841	CTGCTTACTG	GCTTATCGAA	ATTAATACGA	CTCACTATAG	GGAGACCCAA	GCTGGCTAGT
HindIII BamHI						
+2	TAAGCTTGGT	ACCGAGCTCG	GATCCGCCAC	CATGCTGTCC	CGAAAGGGCA	TTATCCCTGA
Kir6.2						
+2	EEYVLTRL	AEDPT	EP	RYR	TR	E
901	GGAATATGTG	CTGACCCGGC	TGGCAGAGGA	CCCTACAGAG	CCCAGGTACC	GTACTCGGGA
Kir6.2						
+2	ERRA	RFVSK	KN	CV	AHK	NI
1021	GAGGAGGGCC	CGCTTCGTGT	CCAAGAAAGG	CAACTGCAAC	GTGCCCCACA	AGAACATCCG
Kir6.2						
+2	REQ	GRFL	QDV	FTT	LVD	LKW
1081	AGAGCAGGGC	CGCTTCCTGC	AAGATGTGTT	CACCACGCTG	GTGGACCTCA	AGTGGCCCCA
Kir6.2						
+2	HTL	LIFT	MS	FL	CS	WLL
1141	CACGCTGCTC	ATTTTACCA	TGTCCTTCCT	GTGCAGCTGG	CTGCTCTTCG	CCATGGTCTG
Kir6.2						
+2	WWL	IAFA	HGD	LAP	GE	GTN
1201	GTGGCTCATC	GCCTTTGCC	ACGGTGACTT	GGCCCCCGGA	GAGGGACCA	ATGTGCCCTG

Fig. 17-2

Kir6.2

+2
1261 C V T S I H S F S S A F L F S I E V Q V T
CGTCACAAGC ATCCACTCCT TTTCGTCTGC CTTCCTTTTC TCCATCGAGG TCCAGGTGAC

Kir6.2

+2
1321 T I G F G G R M V T E E C P L A I L I L I
CATTGGTTTC GGCGGGCGCA TGGTGACAGA GGAATGTCCC CTGGCCATCC TTATTCTGAT

Kir6.2

+2
1381 I V Q N I V G L M I N A I M L G C I F M K
CGTGCAGAAT ATCGTAGGGC TAATGATCAA CGCCATCATG CTGGGCTGCA TCTTCATGAA

Kir6.2

+2
1441 K T A Q A H R R A E T L I F S K H A V I T
AACGGCACAG GCCCATCGGC GGCAGAAAC CCTCATCTTC AGCAAGCATG CCGTGATCAC

Kir6.2

+2
1501 T L R H G R L C F M L R V G D L R K S M I
CCTGCGACAT GGCCGCTGT GCTTCATGCT TCGCGTAGGG GACCTCCGAA AAAGCATGAT

Kir6.2

+2
1561 I I S A T I H M Q V V R K T T S P E G E V
CATTAGCGCC ACCATTCTATA TGCAGGTGGT GCGCAAGACC ACCAGCCCGG AGGGCGAGGT

Kir6.2

+2
1621 V V P L H Q V D I P M E N G V G G N S I F
TGTGCTCTC CACCAGGTGG ACATCCCCAT GGAGAACGGT GTGGGTGTA ACAGCATCTT

Kir6.2

+2
1681 F L V A P L I I Y H V I D S N S P L Y D L
TCTGGTGGCC CCACTCATCA TCTACCAGT CATCGACTCC AACAGCCCGC TCTACGACCT

Kir6.2

+2
1741 L A P S D L H H H Q D L E I I V I L E G V
GGTCCTAGT GACCTGCACC ACCACCAGGA CCTGGAGATC ATTGTCATCT TGAAGGTGT

Kir6.2

+2
1801 V V E T T G I T T Q A R T S Y L A D E I L
GGTAGAAACC ACAGGCATTA CCACCCAGGC CCGCACCTCC TATCTGGCTG ACGAGATTCT

Kir6.2

+2
1861 L W G Q R F V P I V A E E D G R Y S V D Y
GTGGGGGCGAG CGTTTTGTCC CCATCGTGGC CGAGGAGGAT GGCCGCTATT CTGTGGACTA

Kir6.2

+2
1921 Y S K F G N T V K V P T P L C T A R Q L D
CTCCAATTC GGGAACACCG TTAAAGTGCC CACACCACTC TGCACAGCCC GCCAGCTTGA

Kir6.2

+2
1981 D E D R S L L D A L T L A S S R G P L R K
TGAGGACCGC AGCCTGCTGG ATGCCCTGAC CCTGCCTCG TCGCGAGGGC CCTGCGCAA

Kir6.2

+2
2041 K R S V A V A K A K P K F S I S P D S L S
GCGCAGTGTG GCTGTGGCAA AGGCCAAGCC CAAGTTTAGC ATCTCTCCGG ATTCCTTGTC

Kir6.2

+2
2101 S *
CTGATAGCGG CCGCTCGAGT CTAGAGGGCC CTTCGAACAA AAACATCATCT CAGAAGAGGA

Agel

+2
2161 TCTGAATATG CATACCGGTC ATCATCACCA TCACCATTGA GTTTAAACCC GCTGATCAGC

PmeI

BGH pA

BGH reverse prime

BGH pA

+2
2221 CTCGACTGTG CTTCTAGTT GCCAGCCATC TGTGTGTTGC CCTTCCCCG TGCTTCCTT

BGH reverse primer

Fig. 17-3

	BGH pA					
2281	GACCCCTGGAA	GGTGCCACTC	CCACTGTCCT	TTCCTAATAA	AATGAGGAAA	TGTCATCGCA
	BGH pA					
2341	TTGTCTGAGT	AGGTGTCATT	CTATTCTGGG	GGGTGGGGTG	GGGCAGGACA	GCAAGGGGGA
	BGH pA					
2401	GGATTGGGAA	GACAAATAGCA	GGCATGCTGG	GGATGCGGTG	GGCTCTATGG	CTTCTGAGGC
	f1 origin					
2461	GGAAAGAACC	AGCTGGGGCT	CTAGGGGGTA	TCCCCACGCG	CCCTGTAGCG	GCGCATTAAG
	f1 origin					
2521	CGCGGCGGGT	GTGGTGGTTA	CGCGCAGCGT	GACCGCTACA	CTTGCCAGCG	CCCTAGCGCC
	f1 origin					
2581	CGCTCCTTTC	GCTTTCCTTC	CTTCCTTCT	CGCCACGTTC	GCCGGCTTTC	CCCGTCAAGC
	f1 origin					
2641	TCTAAATCGG	GGGCTCCCTT	TAGGGTTCCG	ATTAGTGCT	TTACGGCACC	TCGACCCCAA
	f1 origin					
2701	AAACTTGAT	TAGGGTGATG	GTTACGTAG	TGGGCCATCG	CCCTGATAGA	CGGTTTTTCG
	f1 origin					
2761	CCCTTGACG	TTGGAGTCCA	CGTCTTTAA	TAGTGGACTC	TTGTTCCAA	CTGGAACAAC
	f1 origin					
2821	ACTCAACCCT	ATCTCGGTCT	ATTCTTTTGA	TTTATAAGGG	ATTTTGCCGA	TTTCGGCCTA
	f1 origin					
2881	TTGTTAAAA	AATGAGCTGA	TTTAACAAA	ATTTAACGCG	AATTAATTCT	GTGGAATGTG
	SV40 early promoter					
2941	TGTCAGTTAG	GGTGTGGAAA	GTCCCCAGGC	TCCCCAGCAG	GCAGAAGTAT	GCAAAGCATG
	SV40 early promoter					
3001	CATCTCAATT	AGTCAGCAAC	CAGGTGTGGA	AAGTCCCCAG	GCTCCCCAGC	AGGCAGAAGT
	SV40 early promoter					
3061	ATGCAAAGCA	TGCATCTCAA	TTAGTCAGCA	ACCATAGTCC	CGCCCCTAAC	TCCGCCCATC
	SV40 early promoter					
3121	CCGCCCCTAA	CTCCGCCAG	TTCCGCCCAT	TCTCCGCCCC	ATGGCTGACT	AATTTTTTTT
	SV40 early promoter					
3181	ATTTATGCAG	AGGCCGAGGC	CGCTCTGCC	TCTGAGCTAT	TCCAGAAGTA	GTGAGGAGGC
	SV40 early promoter					
3241	TTTTTTGGAG	GCCTAGGCTT	TTGCAAAAAG	CTCCGGGAG	CTTGATATC	CATTTTCGGA
	Neo(R)					
3301	TCTGATCAAG	AGACAGGATG	AGGATCGTTT	CGCATGATTG	AACAAGATGG	ATTGCACGCA
	Neo(R)					
3361	GGTTCTCCGG	CCGCTTGGGT	GGAGAGGCTA	TTCGGCTATG	ACTGGGCACA	ACAGACAATC
	Neo(R)					
3421	GGCTGCTCTG	ATGCCGCCGT	GTCCGGCTG	TCAGCGCAGG	GGCGCCCGGT	TCTTTTGTG
	Neo(R)					
3481	AAGACCGACC	TGTCCGGTGC	CCTGAATGAA	CTGCAGGACG	AGGCAGCGCG	GCTATCGTGG
	Neo(R)					
3541	CTGGCCACGA	CGGGCGTTCC	TTGCGCAGCT	GTGCTCGACG	TTGTCACTGA	AGCGGGAAGG
	Neo(R)					
3601	GA CTGGCTGC	TATTGGGCGA	AGTGCCGGGG	CAGGATCTCC	TGTCATCTCA	CCTTGCTCCT
	Neo(R)					
3661	GCCGAGAAAG	TATCCATCAT	GGCTGATGCA	ATGCGGCGGC	TGCATACGCT	TGATCCGGCT
	Neo(R)					
3721	ACCTGCCCAT	TCGACCACCA	AGCGAAACAT	CGCATCGAGC	GAGCACGTAC	TCGGATGGAA

Fig. 17-4

3781	Neo(R)					
	GCCGGTCTTG	TCGATCAGGA	TGATCTGGAC	GAAGAGCATC	AGGGGCTCGC	GCCAGCCGAA
3841	Neo(R)					
	CTGTTCGCCA	GGCTCAAGGC	GCGCATGCCC	GACGGCGAGG	ATCTCGTCGT	GACCCATGGC
3901	Neo(R)					
	GATGCCTGCT	TGCCGAATAT	CATGGTGGAA	AATGGCCGCT	TTTCTGGATT	CATCGACTGT
3961	Neo(R)					
	GGCCGGCTGG	GTGTGGCGGA	CCGCTATCAG	GACATAGCGT	TGGCTACCCG	TGATATTGCT
4021	Neo(R)					
	GAAGAGCTTG	GCGGCGAATG	GGCTGACCGC	TTCTCTGTGC	TTTACGGTAT	CGCCGCTCCC
4081	Neo(R)					
	GATTTCGAGC	GCATCGCCTT	CTATCGCCTT	CTTGACGAGT	TCTTCTGAGC	GGGACTCTGG
4141	GGTTCGCGAA	ATGACCGACC	AAGCGACGCC	CAACCTGCCA	TCACGAGATT	TCGATTCCAC
4201	CGCCGCCTTC	TATGAAAGGT	TGGGCTTCGG	AATCGTTTTC	CGGGACGCCG	GCTGGATGAT
4261	SV40 pA					
	CCTCCAGCGC	GGGGATCTCA	TGCTGGAGTT	CTTCGCCCAC	CCCAACTTGT	TTATTGCAGC
4321	SV40 pA					
	TTATAATGGT	TACAAATAAA	GCAATAGCAT	CACAAATTTC	ACAAATAAAG	CATTTTTTTC
4381	SV40 pA					
	ACTGCATTCT	AGTTGTGGTT	TGTCCAAACT	CATCAATGTA	TCTTATCATG	TCTGTATACC
4441	GTCGACCTCT	AGCTAGAGCT	TGGCGTAATC	ATGGTCATAG	CTGTTTCCTG	TGTGAAATTG
4501	TTATCCGCTC	ACAATTCCAC	ACAACATACG	AGCCGGAAGC	ATAAAGTGTA	AAGCCTGGGG
4561	TGCCTAATGA	GIGAGCTAAC	TCACATTAAAT	TGCGTTGCGC	TCACTGCCCC	CTTCCAGTC
4621	GGGAAACCTG	TCGTGCCAGC	TGCATTAATG	AATCGGCCAA	CGCGCGGGGA	GAGGCGGTTT
4681	GCGTATTGGG	CGCTCTTCG	CTTCTCGCT	CACTGACTCG	CTGCGCTCGG	TCGTTCGGCT
4741	GCGGCGAGCG	GTATCAGCTC	ACTCAAAGGC	GGTAATACGG	TTATCCACAG	AATCAGGGGA
4801	TAACGCAGGA	AAGAACATGT	GAGCAAAAGG	CCAGCAAAAG	GCCAGGAACC	GTAAAAAGGC
4861	pUC origin					
	CGCGTTGCTG	GCGTTTTTCC	ATAGGCTCCG	CCCCCCTGAC	GAGCATCACA	AAAATCGACG
4921	pUC origin					
	CTCAAGTCAG	AGGTGGCGAA	ACCCGACAGG	ACTATAAAGA	TACCAGGCGT	TTCCCCCTGG
4981	pUC origin					
	AAGCTCCCTC	GTGCGCTCTC	CTGTTCCGAC	CCTGCCGCTT	ACCGGATACC	TGTCCGCCTT
5041	pUC origin					
	TCTCCCTTCG	GGAAGCGTGG	CGCTTTCTCA	TAGCTACGC	TGTAGGTATC	TCAGTTCGGT
5101	pUC origin					
	GTAGGTCGTT	CGCTCCAAGC	TGGGCTGTGT	GCACGAACCC	CCCGTTCAGC	CCGACCGCTG
5161	pUC origin					
	CGCCTTATCC	GGTAACTATC	GTCTTGAGTC	CAACCCGGTA	AGACACGACT	TATCGCCACT
5221	pUC origin					
	GGCAGCAGCC	ACTGGTAACA	GGATTAGCAG	AGCGAGGTAT	GTAGGCGGTG	CTACAGAGTT
5281	pUC origin					
	CTTGAAGTGG	TGGCCTAACT	ACGGCTACAC	TAGAAGAACA	GTATTGGTA	TCTGCGCTCT
5341	pUC origin					
	GCTGAAGCCA	GTTACCTTCG	GAAAAAGAGT	TGGTAGCTCT	TGATCCGGCA	AACAAACCAC
5401	pUC origin					
	CGCTGGTAGC	GGTGGTTTTT	TTGTTTGCAA	GCAGCAGATT	ACGCGCAGAA	AAAAAGGATC

Fig. 17-5

5461	<u>TCAAGAAGAT CCTTTGATCT TTTCTACGGG GTCTGACGCT CAGTGGAACG AAAACTCACG</u>
	pUC origin
5521	<u>TTAAGGGATT TTGGTCATGA GATTATCAAA AAGGATCTTC ACCTAGATCC TTTTAAATTA</u>
5581	<u>AAAATGAAGT TTAAATCAA TCTAAAGTAT ATATGAGTAA ACTTGGTCTG ACAGTTACCA</u>
	Amp(R)
5641	<u>ATGCTTAATC AGTGAGGCAC CTATCTCAGC GATCTGTCTA TTTCGTTTAT CCATAGTTGC</u>
	Amp(R)
5701	<u>CTGACTCCCC GTCGTGTAGA TAACTACGAT ACGGGAGGGC TTACCATCTG GCCCCAGTGC</u>
	Amp(R)
5761	<u>TGCAATGATA CCGCGAGACC CACGCTCACC GGCTCCAGAT TTATCAGCAA TAAACCAGCC</u>
	Amp(R)
5821	<u>AGCCGGAAGG GCCGAGCGCA GAAGTGGTCC TGCAACTTTA TCCGCCTCCA TCCAGTCTAT</u>
	Amp(R)
5881	<u>TAATGTGTTG CGGGAAGCTA GAGTAAGTAG TTCGCCAGTT AATAGTTTGC GCAACGTTGT</u>
	Amp(R)
5941	<u>TGCCATTGCT ACAGGCATCG TGGTGTACAG CTCGTCGTTT GGTATGGCTT CATTAGCTC</u>
	Amp(R)
6001	<u>CGGTTCCCAA CGATCAAGGC GAGTTACATG ATCCCCCATG TTGTGCAAAA AAGCGGTTAG</u>
	Amp(R)
6061	<u>CTCCTTCGGT CCTCCGATCG TTGTCAGAAG TAAGTTGGCC GCAGTGTTAT CACTCATGGT</u>
	Amp(R)
6121	<u>TATGGCAGCA CTGCATAATT CTCTTACIGT CATGCCATCC GTAAGATGCT TTTCTGTGAC</u>
	Amp(R)
6181	<u>TGGTGAGTAC TCAACCAAGT CATTCTGAGA ATAGTGTATG CGGCGACCGA GTTGCTCTTG</u>
	Amp(R)
6241	<u>CCCGGCGTCA ATACGGGATA ATACCGCGCC ACATAGCAGA ACTTTAAAAG TGCTCATCAT</u>
	Amp(R)
6301	<u>TGGAAAACGT TCTTCGGGGC GAAAACCTCTC AAGGATCTTA CCGCTGTTGA GATCCAGTTC</u>
	Amp(R)
6361	<u>GATGTAACCC ACTCGTGCAC CCAACTGATC TTCAGCATCT TTTACTTTCA CCAGCGTTTC</u>
	Amp(R)
6421	<u>TGGTGAGCA AAAACAGGAA GGCAAAATGC CGCAAAAAAG GGAATAAGGG CGACACGGAA</u>
	Amp(R)
6481	<u>ATGTTGAATA CTCATACTCT TCCTTTTTC AATTATTGA AGCATTTATC AGGGTTATTG</u>
	bla promoter
	Amp(R)
6541	<u>TCTCATGAGC GGATACATAT TTGAATGTAT TTAGAAAAAT AAACAAATAG GGGTTCCGCG</u>
	bla promoter
6601	<u>CACATTTCCT CGAAAAGTGC CACCTGACGT C</u>

Fig. 18-1

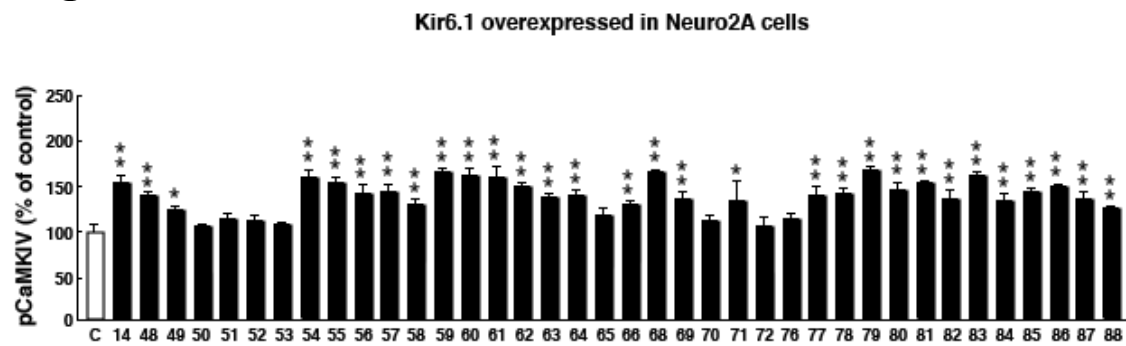


Fig. 18-2

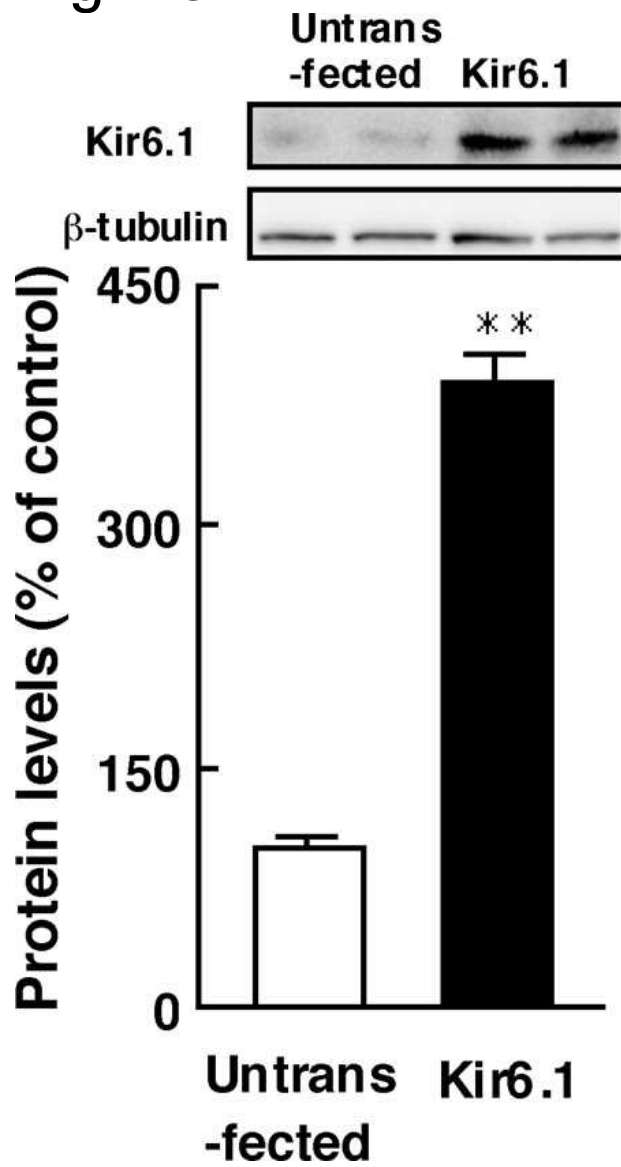


Fig. 18-3

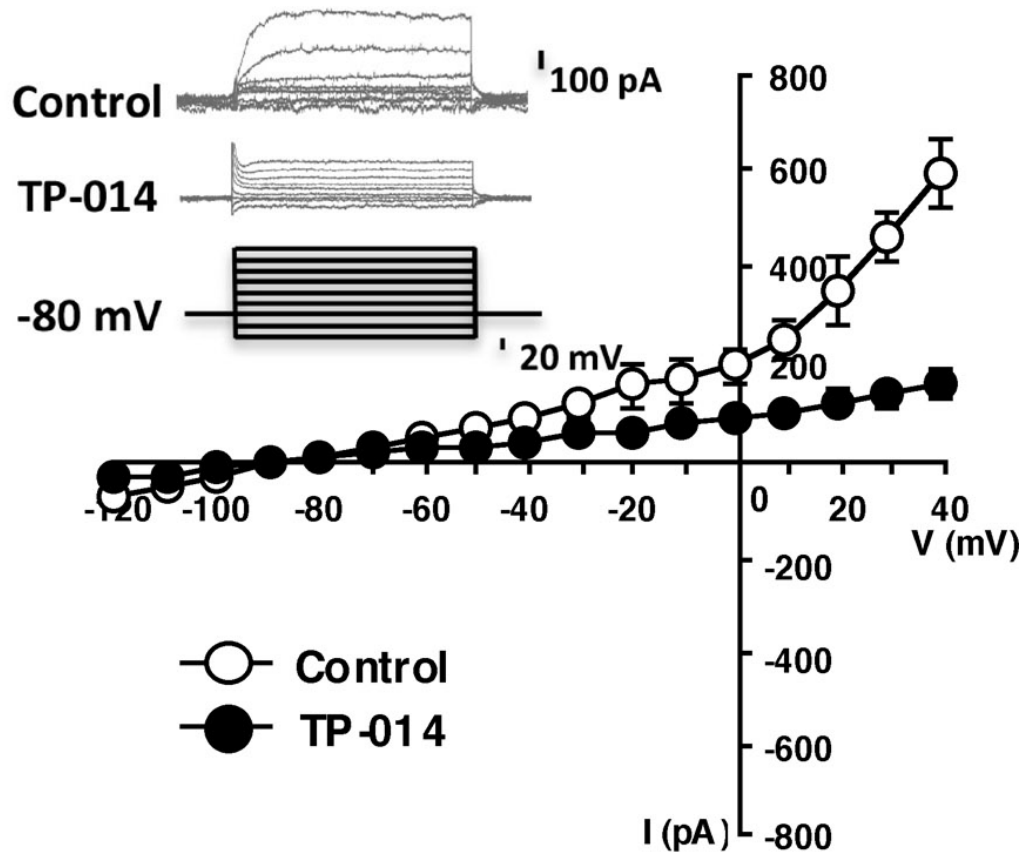
Kir 6.1 transfected

Fig. 19-1

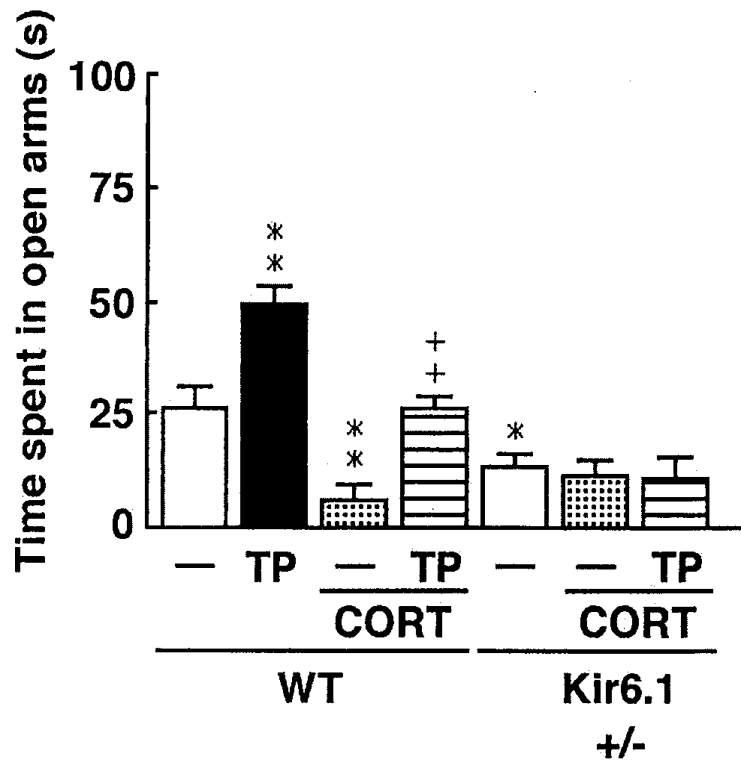


Fig. 19-2



Fig. 19-3

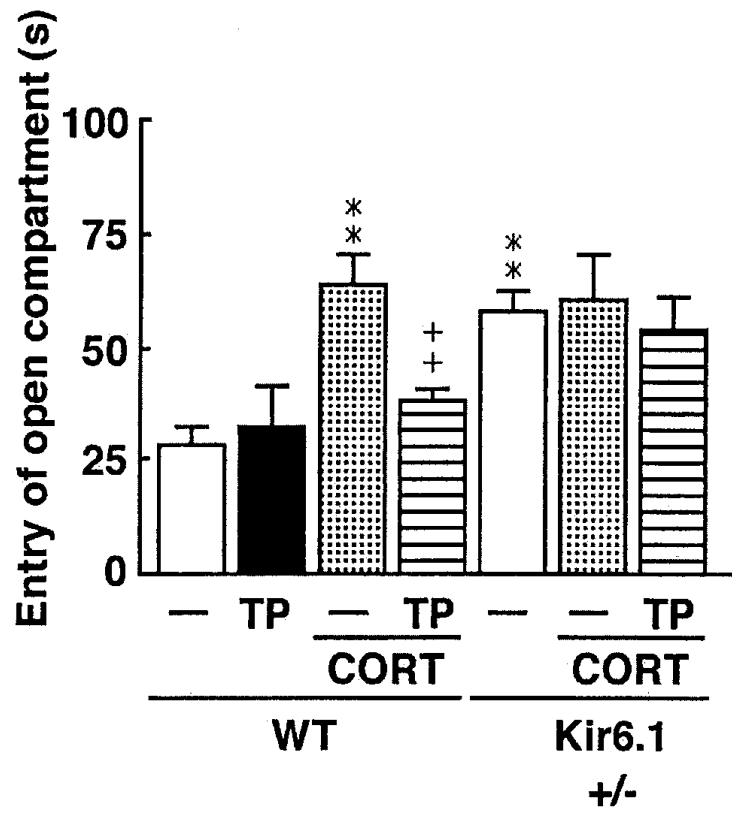


Fig. 19-4

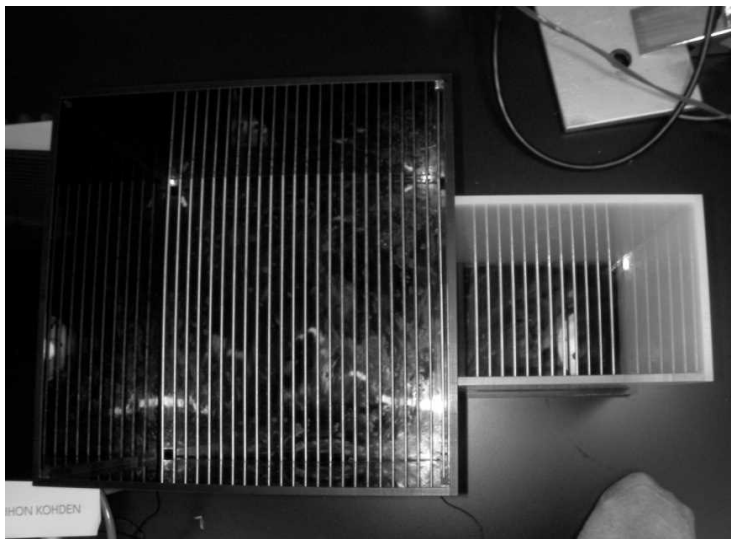


Fig. 19-5

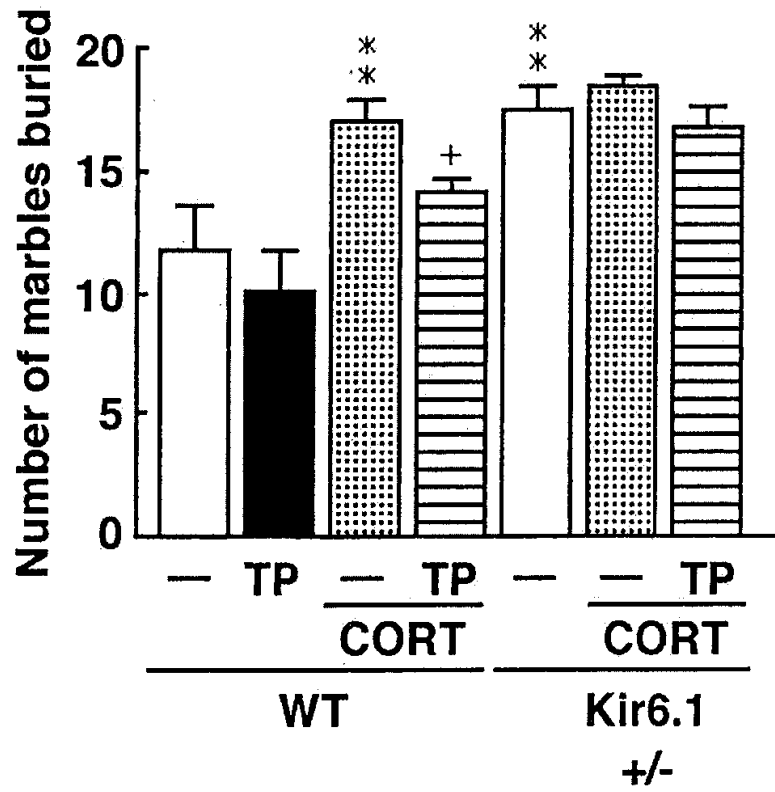


Fig. 19-6

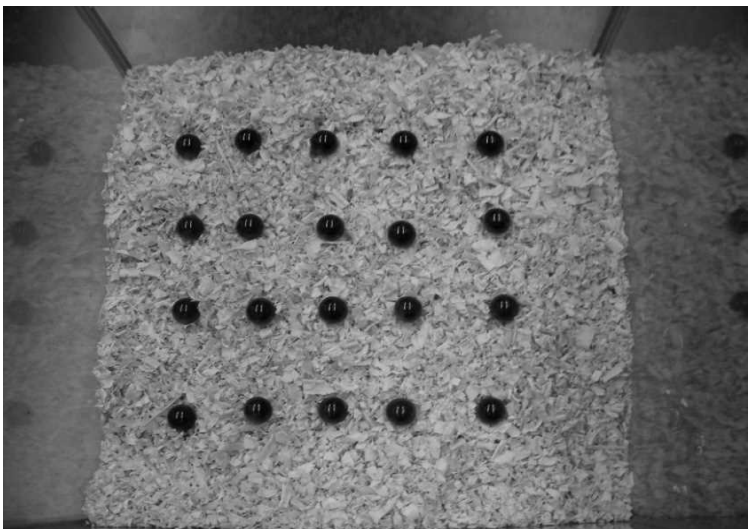


Fig. 19-7

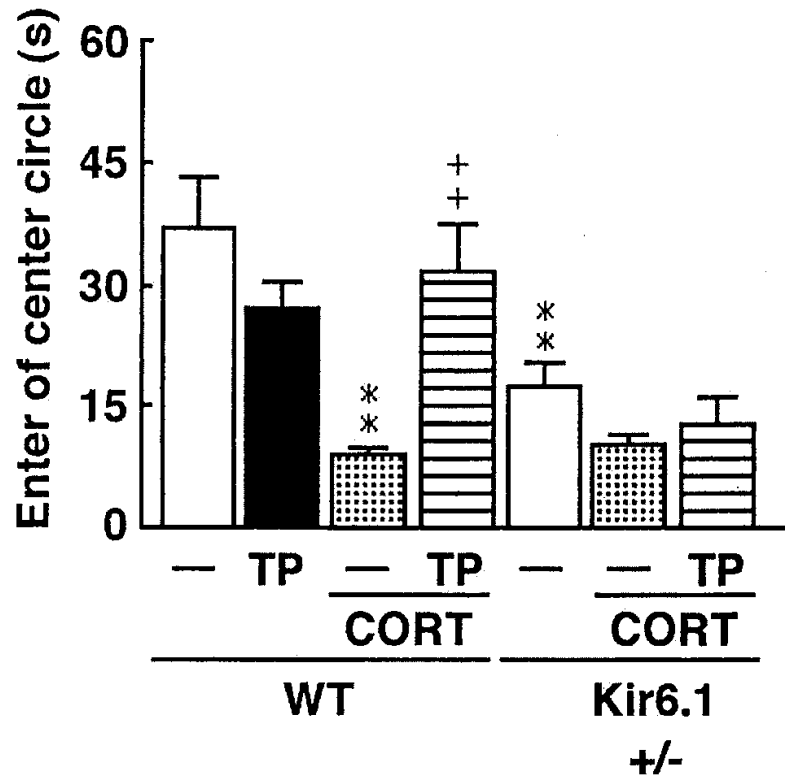


Fig. 19-8

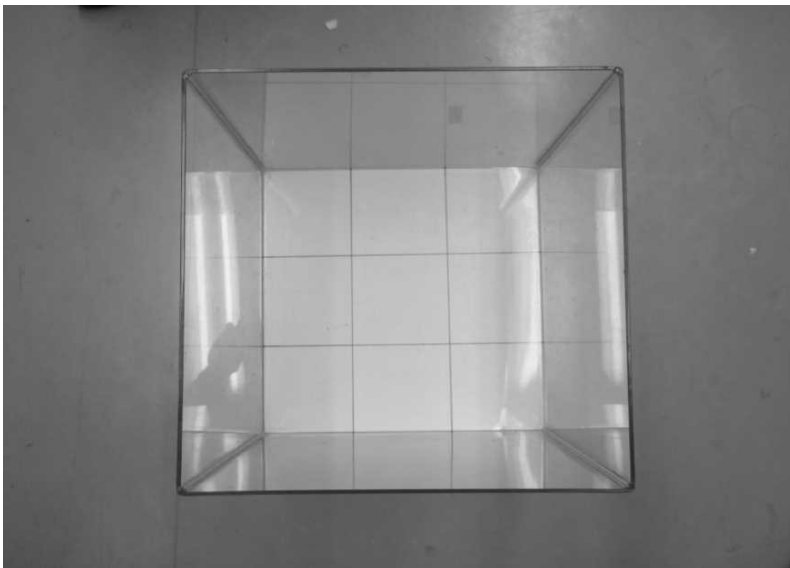


Fig. 19-9

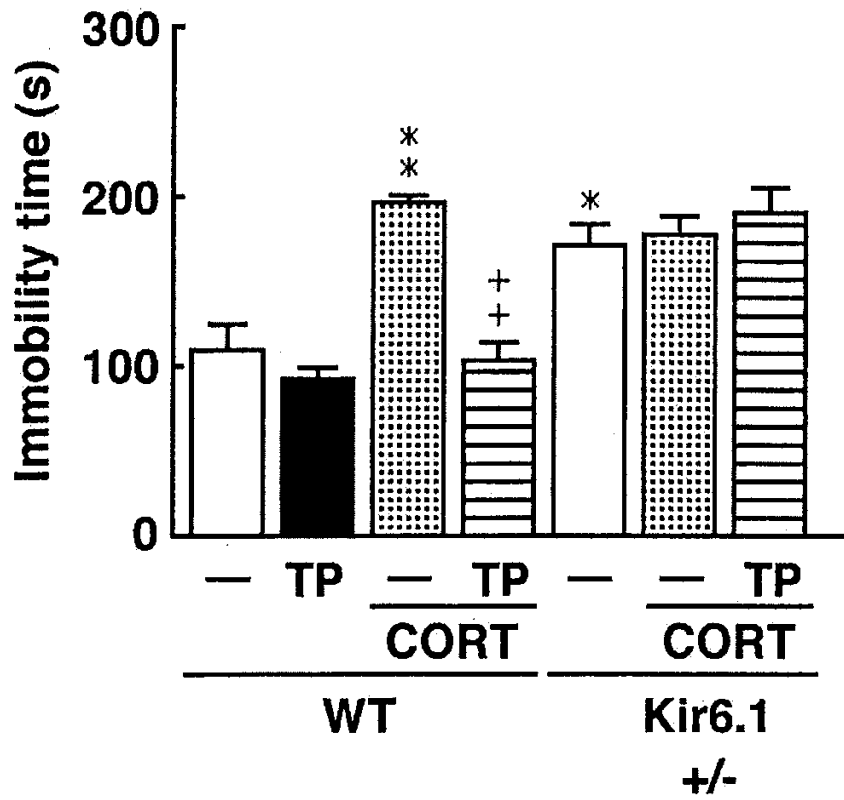


Fig. 20

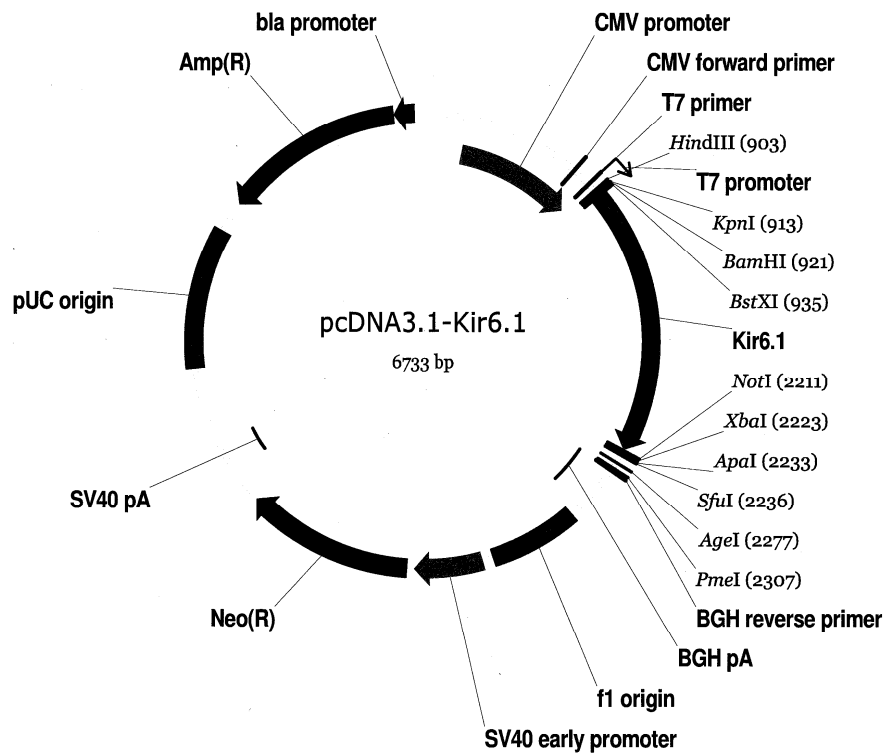


Fig. 21-1

1	GACGGATCGG GAGATCTCCC GATCCCCTAT GGTGCACTCT CAGTACAATC TGCTCTGATG
61	CCGCATAGTT AAGCCAGTAT CTGCTCCCTG CTGTGTGTGT GGAGGTCGCT GAGTAGTGCG
121	CGAGCAAAAT TTAAGCTACA ACAAGGCAAG GCTTGACCGA CAATTGCATG AAGAATCTGC
CMV promoter	
181	TTAGGGTTAG GCGTTTTGCG CTGCTTCGCG ATGTACGGGC CAGATATACG CGTTGACATT
CMV promoter	
241	GATTATTGAC TAGTTATTAA TAGTAATCAA TTACGGGGTC ATTAGTTCAT AGCCCATATA
CMV promoter	
301	TGGAGTTCGG CGTTACATAA CTTACGGTAA ATGGCCCGCC TGGCTGACCG CCCAACGACC
CMV promoter	
361	CCGCCCCATT GACGTCAATA ATGACGTATG TTCCCATAGT AACGCCAATA GGGACTTTCC
CMV promoter	
421	ATTGACGTCA ATGGGTGGAC TATTACGGT AAAC TGCCCA CTTGGCAGTA CATCAAGTGT
CMV promoter	
481	ATCATATGCC AAGTACGCCC CCTATTGACG TCAATGACGG TAAATGGCCC GCGTGGCATT
CMV promoter	
541	ATGCCAGTA CATGACCTTA TGGGACTTTC CTACTTGGA GTACATCTAC GTATTAGTCA
CMV promoter	
601	TCGCTATTAC CATGGTGATG CGGTTTTGGC AGTACATCAA TGGGCGTGGA TAGCGGTTG
CMV promoter	
661	ACTCACGGGG ATTTCCAAGT CTCCACCCCA TTGACGTCAA TGGGAGTTTG TTTTGGCACC
CMV forward primer	
CMV promoter	
721	AAAATCAACG GGACTTTCCA AAATGTCGTA ACAACTCCGC CCCATTGACG CAAATGGGCG
CMV forward prime	
CMV promoter	
781	GTAGGCGTGT ACGGTGGGAG GTCTATATAA GCAGAGCTCT CTGGCTAACT AGAGAACCCA
T7 primer	
CMV promoter	
T7 promoter	
841	CTGCTTACTG GCTTATCGAA ATTAATACGA CTCACTATAG GGAGACCCAA GCTGGCTAGT
Kir6.1	
+2	M L A R K S I I P E
901	TAAGCTTGGT ACCGAGCTCG GATCCGCCAC CATGCTGGCC AGGAAGAGCA TCATCCCGGA
Kir6.1	
+2	E E Y V L A R I A A E N L R K P R I R D R
961	GGAGTATGTG CTGGCCCGCA TCGCGGCGGA GAACCTGCGC AAACCGCGCA TCCGCGACCG
Kir6.1	
+2	R L P K A R F I A K S G A C N L A H K N I
1021	CCTCCCCAAA GCCCGTTCA TCGCAAGAG CGGAGCCTGC AACCTGGCTC ACAAGAACAT
Kir6.1	
+2	I R E Q G R F L Q D I F T T L V D L K W R
1081	CCGAGAGCAA GGTCGCTTCC TGCAGGACAT CTTACCACC TTGGTAGACC TGAAGTGGCG
Kir6.1	
+2	R H T L V I F T M S F L C S W L L F A I M
1141	TCACACGCTG GTCATCTTCA CCAATGTCCTT CCTCTGCAGC TGGCTGCTCT TCGCTATCAT
Kir6.1	
+2	M W W L V A F A H G D I Y A Y M E K G I T
1201	GTGGTGGCTG GTGGCCTTCG CCCACGGGGA CATCTATGCT TACATGGAGA AAGGCATCAC

Fig. 21-2

		Kir6.1	
+2	·	T E K S G L E S A V C V T N V R S F T S A ·	
1261	GGAGAAGAGT	GGCCTGGAGT CTGCCGTCTG TGTGACCAAT	GTCAGGTCAT TCACTTCTGC
		Kir6.1	
+2	·	A F L F S I E V Q V T I G F G G R M M T E ·	
1321	GTTTCTCTTC	TCCATCGAGG TTCAAGTGAC CATTGGGTTT	GGAGGGAGAA TGATGACTGA
		Kir6.1	
+2	·	E E C P L A I T V L I L Q N I V G L I I N ·	
1381	GGAGTGCCCT	CTGGCCATCA CGGTTTIGAT TCTGCAGAAC	ATTGTGGGTC TGATCATCAA
		Kir6.1	
+2	·	N A V M L G C I F M K T A Q A H R R A E T ·	
1441	CGCGGTCATG	TGGGCTGCA TCTTCATGAA GACGGCCAG	GCCCACAGAA GGGCAGAGAC
		Kir6.1	
+2	·	T L I F S R H A V I A V R N G K L C F M F ·	
1501	GCTGATTTTC	AGCCGCCATG CTGTAATTGC GGTCCGTAAT	GGCAAGCTGT GCTTCATGTT
		Kir6.1	
+2	·	F R V G D L R K S M I I S A S V R I Q V V ·	
1561	CCGGGTGGGT	GACCTGAGGA AAAGCATGAT CATTAGCGCC	TCGGTGCGCA TCCAGGTGGT
		Kir6.1	
+2	·	V K K T T T P E G E V V P I H Q Q D I P V ·	
1621	CAAGAAAACC	ACGACGCCAG AAGGAGAGGT GGTGCCTATT	CACCAGCAGG ACATCCCTGT
		Kir6.1	
+2	·	V D N P I E S N N I F L V A P L I I C H V ·	
1681	GGATAATCCC	ATCGAGAGCA ATAACATCTT CCTAGTGGCC	CCTTTGATCA TCTGCCATGT
		Kir6.1	
+2	·	V I D K R S P L Y D I S A T D L V N Q D L ·	
1741	GATTGATAAG	CGTAGCCCC TGTACGATAT CTCAGCCACT	GACCTGTCA ACCAAGACCT
		Kir6.1	
+2	·	L E V I V I L E G V V E T T G I T T Q A R ·	
1801	GGAGGTCATA	GTGATTCTCG AGGGCGTGGT GGAAACCACG	GGCATCACCA CGCAAGCGCG
		Kir6.1	
+2	·	R T S Y I A E E I Q W G H R F V S I V T E ·	
1861	GACCTCCTAC	ATTGCAGAGG AGATCCAGTG GGGACACCGC	TTCGTGTCGA TTGTGACTGA
		Kir6.1	
+2	·	E E E G V Y S V D Y S K F G N T V R V A A ·	
1921	GGAGGAGGGA	GTGTACTCTG TGGACTATTC TAAATTGGT	AATACTGTGA GAGTGGCGGC
		Kir6.1	
+2	·	A P R C S A R E L D E K P S I L I Q T L Q ·	
1981	GCCAAGATGC	AGTGCCCGGG AGCTGGACGA GAAACCTTCC	ATCTTGATTC AGACCTCCA
		Kir6.1	
+2	·	Q K S E L S H Q N S L R K R N S M R R N N ·	
2041	AAAGAGTGAA	CTGTGCGACC AGAATTCTCT GAGGAAGCGC	AACCTATGA GAAGAAACAA
		Kir6.1	
+2	·	N S M R R S N S I R R N N S S L M V P K V ·	
2101	CTCCATGAGG	AGGAGCAACT CCATCCGGAG GAATAACTCT	TCCCTCATGG TGCCCAAGGT
		Kir6.1	NotI
+2	·	V Q F M T P E G N Q C P S E S ·	
2161	GCAATTCATG	ACTCCAGAAG GAAACCAGTG CCCATCAGAA	TCATGATAGC GGCCGCTCGA
		XbaI	Apal
		SfuI	Agel
2221	GTC TAGAGGG	CCCTTCGAAC AAAAATCAT CTCAGAAGAG	GATCTGAATA TGCATACCGG

Fig. 21-3

	Agel		PmeI		BGH pA
2281	TCATCATCAC	CATCACCATT	GAGTTTAAAC	CGCTGATCA	GCCTCGACTG TGCCTTCTAG
					BGH reverse primer
					BGH pA
2341	TTGCCAGCCA	TCTGTTGTTT	GCCCCTCCCC	CGTGCCTTCC	TGACCCCTGG AAGGTGCCAC
					BGH pA
2401	TCCCACTGTC	CTTCCCTAAT	AAAATGAGGA	AATTGCATCG	CATTGTCTGA GTAGGTGTCA
					BGH pA
2461	TTCTATTCTG	GGGGGTGGGG	TGGGGCAGGA	CAGCAAGGGG	GAGGATTGGG AAGACAATAG
					BGH pA
2521	CAGGCATGCT	GGGGATGCGG	TGGGCTCTAT	GGCTTCTGAG	GCGGAAAGAA CCAGCTGGGG
					f1 origin
2581	CTCTAGGGGG	TATCCCCACG	CGCCTGTAG	CGGCGCATT	AGCGCGCGG GTGTGTTGGT
					f1 origin
2641	TACGCGCAGC	GTGACCGCTA	CATTGCCAG	CGCCTAGCG	CCCGCTCCTT TCGCTTCTT
					f1 origin
2701	CCCTTCCTTT	CTCGCCACGT	TCGCCGGCTT	TCCCCGTCAA	GCTCTAAATC GGGGGCTCCC
					f1 origin
2761	TTTAGGGTTC	CGATTAGTG	CTTACGGCA	CCTCGACCCC	AAAAAACTG ATTAGGGTGA
					f1 origin
2821	TGGTTCACGT	AGTGGGCCAT	CGCCTGATA	GACGGTTTTT	CGCCCTTGA CGTTGGAGTC
					f1 origin
2881	CACGTTCCTT	AATAGTGGAC	TCTGTTCCTA	AACTGGAACA	AACTCAACC CTATCTCGGT
					f1 origin
2941	CTATCTTTTT	GATTATAAG	GGATTTGCC	GATTTCGGCC	TATTGGTTAA AAAATGAGCT
					f1 origin
3001	GATTTAACAA	AAATTTAACG	CGAATTAATT	CTGTGGAATG	TGTGTCAGTT AGGGTGTGGA
					SV40 early promoter
3061	AAGTCCCCAG	GCTCCCCAGC	AGGCAGAAGT	ATGCAAAGCA	TGCATCTCAA TTAGTCAGCA
					SV40 early promoter
3121	ACCAGTGTTG	GAAAGTCCCC	AGGCTCCCCA	GCAGGCAGAA	GTATGCAAAG CATGCATCTC
					SV40 early promoter
3181	AATTAGTCAG	CAACCATAGT	CCCGCCCCCTA	ACTCCGCCCA	TCCCGCCCCCT AACTCCGCC
					SV40 early promoter
3241	AGTTCCGCCC	ATTCTCCGCC	CCATGGCTGA	CTAATTTTTT	TTATTTATGC AGAGGCCGAG
					SV40 early promoter
3301	GCCGCTCTG	CCTCTGAGCT	ATTCCAGAAG	TAGTGAGGAG	GCTTTTTTGG AGGCCTAGGC
					SV40 early promoter
3361	TTTTGCAAAA	AGCTCCCGGG	AGCTTGATA	TCCATTTTCG	GATCTGATCA AGAGACAGGA
					Neo(R)
3421	TGAGGATCGT	TTCGCATGAT	TGAACAAGAT	GGATTGCACG	CAGGTTCTCC GGCCGCTTGG
					Neo(R)
3481	GTGGAGAGGC	TATTCGGCTA	TGACTGGGCA	CAACAGACAA	TCGGCTGCTC TGATGCCGCC
					Neo(R)
3541	GTGTCCGGC	TGTCAGCGCA	GGGGCGCCCG	GTTCTTTTTG	TCAAGACCGA CCTGTCCGGT
					Neo(R)
3601	GCCCTGAATG	AACTGCAGGA	CGAGGCAGCG	CGGCTATCGT	GGCTGGCCAC GACGGGCGTT
					Neo(R)
3661	CCTTGCGCAG	CTGTGCTCGA	CGTTGCTACT	GAAGCGGGAA	GGGACTGGCT GCTATTGGGC

Fig. 21-4

				Neo(R)		
3721	GAAGTGCCGG	GGCAGGATCT	CCTGTCATCT	CACCTTGCTC	CTGCCGAGAA	AGTATCCATC
				Neo(R)		
3781	ATGGCTGATG	CAATGCGGCG	GCTGCATACG	CTTGATCCGG	CTACCTGCCC	ATTCGACCAC
				Neo(R)		
3841	CAAGCGAAAC	ATCGCATCGA	GCGAGCACGT	ACTCGGATGG	AAGCCGGTCT	TGTCGATCAG
				Neo(R)		
3901	GATGATCTGG	ACGAAGAGCA	TCAGGGGCTC	GCGCCAGCCG	AAC TGTTTCG	CAGGCTCAAG
				Neo(R)		
3961	GCGCGCATGC	CCGACGGCGA	GGATCTCGTC	GTGACCCATG	GCGATGCCTG	CTTGCCGAAT
				Neo(R)		
4021	ATCATGGTGG	AAAATGGCCG	CTTTTCTGGA	TTCATCGACT	GTGGCCGGCT	GGGTGTGGCG
				Neo(R)		
4081	GACCGCTATC	AGGACATAGC	GTTGGCTACC	CGTGATATTG	CTGAAGAGCT	TGGCGGCGAA
				Neo(R)		
4141	TGGGCTGACC	GCTTCCTCGT	GCTTTACGGT	ATCGCCGCTC	CCGATTGCGA	GCGCATCGCC
				Neo(R)		
4201	TTCTATCGCC	TTCTTGACGA	GTTCTTCTGA	GCGGGACTCT	GGGGTTCGCG	AAATGACCGA
4261	CCAAGCGACG	CCCAACCTGC	CATCACGAGA	TTTCGATTCC	ACCGCCGCCT	TCTATGAAAG
4321	GTTGGGCTTC	GGAATCGTTT	TCCGGGACGC	CGGCTGGATG	ATCCTCCAGC	GCGGGGATCT
				SV40 pA		
4381	CATGCTGGAG	TTCTTCGCCC	ACCCCAACTT	GTTTATTGCA	GCTTATAATG	GTTACAAATA
				SV40 pA		
4441	AAGCAATAGC	ATCACAAATT	TCACAAATAA	AGCATTTTTT	TCACTGCATT	CTAGTTGTGG
				SV40 pA		
4501	TTTGTC AAA	CTCATCAATG	TATCTTATCA	TGTCGTATA	CCGTCGACCT	CTAGCTAGAG
4561	CTTGGCGTAA	TCATGGTCAT	AGCTGTTTCC	TGTGTGAAAT	TGTTATCCGC	TCACAATTCC
4621	ACACAACATA	CGAGCCGGAA	GCATAAAGTG	TAAAGCCTGG	GGTGCCTAAT	GAGTGAGCTA
4681	ACTCACATTA	ATTGCGTTGC	GCTCACTGCC	CGCTTTCAG	TCGGGAAACC	TGTCGTGCCA
4741	GCTGCATTAA	TGAATCGGCC	AACGCGCGGG	GAGAGGCGGT	TGCGTATTG	GGCGCTCTTC
4801	CGCTTCTCG	CTCACTGACT	CGCTGCGCTC	GGTCGTTTCG	CTGCGGCGAG	CGGTATCAGC
4861	TCACTCAAAG	GCGGTAATAC	GGTTATCCAC	AGAATCAGGG	GATAACGCAG	GAAAGAACAT
						pUC origin
4921	GTGAGCAAAA	GGCCAGCAAA	AGGCCAGGAA	CCGTAAAAAG	GCCGCGTTGC	TGGCGTTTTT
				pUC origin		
4981	CCATAGGCTC	CGCCCCCCTG	ACGAGCATCA	CAAAAAATCGA	CGCTCAAGTC	AGAGGTGGCG
				pUC origin		
5041	AAACCCGACA	GGACTATAAA	GATACCAGGC	GTITCCCCCT	GGAAGCTCCC	TCGTGCGCTC
				pUC origin		
5101	TCCTGTTCCG	ACCCTGCCGC	TTACCGGATA	CCTGTCCGCC	TTCTCCCTT	CGGGAAGCGT
				pUC origin		
5161	GGCGCTTTCT	CATAGCTCAC	GCTGTAGGTA	TCTCAGTTTCG	GTGTAGGTCG	TTCGTCCAA
				pUC origin		
5221	GCTGGGCTGT	GTGCACGAAC	CCCCCGTTCA	GCCCGACCGC	TGCGCCTTAT	CCGGTAACTA
				pUC origin		
5281	TCGTCTTGAG	TCCAACCCGG	TAAGACACGA	CTTATCGCCA	CTGGCAGCAG	CCACTGGTAA
				pUC origin		
5341	CAGGATTAGC	AGAGCGAGGT	ATGTAGGCGG	TGCTACAGAG	TTCTTGAAGT	GGTGGCCTAA
				pUC origin		

Fig. 21-5

5401	<u>CTACGGCTAC</u>	<u>ACTAGAAGAA</u>	<u>CAGTATTGG</u>	<u>TATCTGCGCT</u>	<u>CTGCTGAAGC</u>	<u>CAGTTACCTT</u>	pUC origin
5461	<u>CGGAAAAAGA</u>	<u>GTGGTAGCT</u>	<u>CTTGATCCGG</u>	<u>CAAACAAACC</u>	<u>ACCGCTGGTA</u>	<u>GCGGTGGTTT</u>	pUC origin
5521	<u>TTTTGTTTGC</u>	<u>AAGCAGCAGA</u>	<u>TTACGCGCAG</u>	<u>AAAAAAAGGA</u>	<u>TCTCAAGAAG</u>	<u>ATCCTTTGAT</u>	pUC origin
5581	<u>CTTTTCTACG</u>	<u>GGGTCTGACG</u>	<u>CTCAGTGGA</u>	<u>CGAAAACTCA</u>	<u>CGTTAAGGGA</u>	<u>TTTTGGTCAT</u>	pUC origin
5641	<u>GAGATTATCA</u>	<u>AAAAGGATCT</u>	<u>TCACCTAGAT</u>	<u>CCTTTTAAAT</u>	<u>TAAAAATGAA</u>	<u>GTTTTAAATC</u>	
5701	<u>AATCTAAAGT</u>	<u>ATATATGAGT</u>	<u>AAACTTGGTC</u>	<u>TGACAGTTAC</u>	<u>CAATGCTTAA</u>	<u>TCAGTGAGGC</u>	Amp(R)
5761	<u>ACCTATCTCA</u>	<u>GCGATCTGTC</u>	<u>TATTTCGTTT</u>	<u>ATCCATAGTT</u>	<u>GCCTGACTCC</u>	<u>CCGTCGTGTA</u>	Amp(R)
5821	<u>GATAACTACG</u>	<u>ATACGGGAGG</u>	<u>GCTTACCATC</u>	<u>TGGCCCCAGT</u>	<u>GCTGCAATGA</u>	<u>TACCGCGAGA</u>	Amp(R)
5881	<u>CCCACGCTCA</u>	<u>CCGGCTCCAG</u>	<u>ATTTATCAGC</u>	<u>AATAAACCAG</u>	<u>CCAGCCGGAA</u>	<u>GGGCCGAGCG</u>	Amp(R)
5941	<u>CAGAAGTGGT</u>	<u>CCTGCAACTT</u>	<u>TATCCGCCTC</u>	<u>CATCCAGTCT</u>	<u>ATTAATTGTT</u>	<u>GCCGGAAGC</u>	Amp(R)
6001	<u>TAGAGTAAGT</u>	<u>AGTTCGCCAG</u>	<u>TTAATAGTTT</u>	<u>GCGCAACGTT</u>	<u>GTTGCCATTG</u>	<u>CTACAGGCAT</u>	Amp(R)
6061	<u>CGTGGTGTC</u>	<u>CGCTCGTCGT</u>	<u>TTGGTATGGC</u>	<u>TTCAATCAGC</u>	<u>TCCGGTTCCC</u>	<u>AACGATCAAG</u>	Amp(R)
6121	<u>GCGAGTTACA</u>	<u>TGATCCCCCA</u>	<u>TGTTGTGCAA</u>	<u>AAAAGCGGTT</u>	<u>AGCTCCTTCG</u>	<u>GTCCTCCGAT</u>	Amp(R)
6181	<u>CGTGTGTCAG</u>	<u>AGTAAGTTGG</u>	<u>CCGCAGTGTT</u>	<u>ATCACTCATG</u>	<u>GTTATGGCAG</u>	<u>CACTGCATAA</u>	Amp(R)
6241	<u>TTCTCTTACT</u>	<u>GTCATGCCAT</u>	<u>CCGTAAGATG</u>	<u>CTTTCTGTG</u>	<u>ACTGGTGAGT</u>	<u>ACTCAACCAA</u>	Amp(R)
6301	<u>GTCATTCTGA</u>	<u>GAATAGTGTA</u>	<u>TGCGGCGACC</u>	<u>GAGTTGCTCT</u>	<u>TGCCCGCGCT</u>	<u>CAATACGGGA</u>	Amp(R)
6361	<u>TAATACCGCG</u>	<u>CCACATAGCA</u>	<u>GAACTTTAAA</u>	<u>AGTGCTCATC</u>	<u>ATTGGAAAAC</u>	<u>GTTCTTCGGG</u>	Amp(R)
6421	<u>GCGAAAACTC</u>	<u>TCAAGGATCT</u>	<u>TACCGCTGTT</u>	<u>GAGATCCAGT</u>	<u>TCGATGTAAC</u>	<u>CCACTCGTGC</u>	Amp(R)
6481	<u>ACCCAACCTGA</u>	<u>TCTTCAGCAT</u>	<u>CTTTTACTTT</u>	<u>CACCAGCGTT</u>	<u>TCTGGGTGAG</u>	<u>CAAAAACAGG</u>	Amp(R)
6541	<u>AAGGCAAAAT</u>	<u>GCCGCAAAAA</u>	<u>AGGGAATAAG</u>	<u>GGCGACACGG</u>	<u>AAATGTTGAA</u>	<u>TACTCATACT</u>	bla promoter
6601	<u>CTTCCTTTTT</u>	<u>CAATATTATT</u>	<u>GAAGCATTTA</u>	<u>TCAGGGTTAT</u>	<u>TGTCTCATGA</u>	<u>GCGGATACAT</u>	bla promoter
6661	<u>ATTGAATGT</u>	<u>ATTAGAAAA</u>	<u>ATAAACAAAT</u>	<u>AGGGGTTCG</u>	<u>CGCACATTC</u>	<u>CCCGAAAAGT</u>	bla promoter
6721	<u>GCCACCTGAC</u>	<u>GTC</u>					

Fig. 22-1

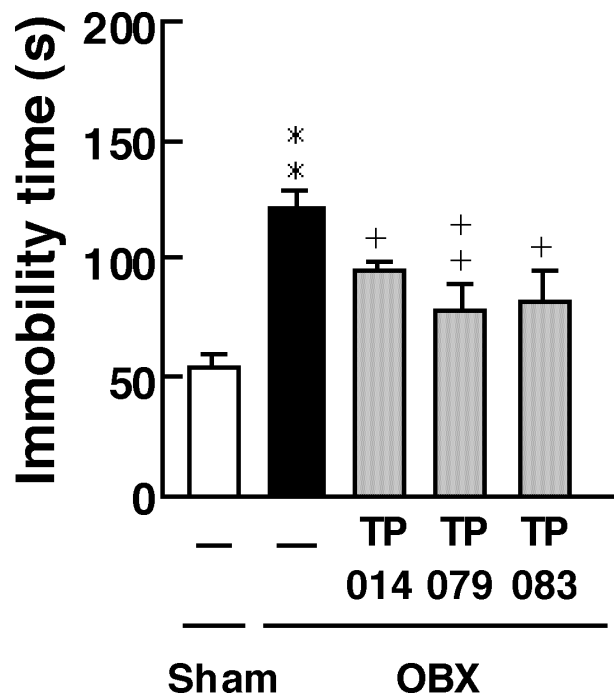


Fig. 22-2

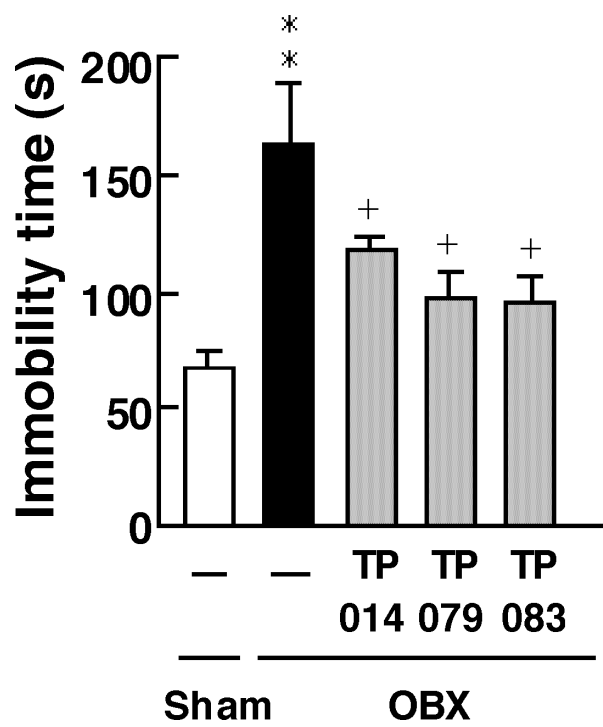


Fig. 22-3

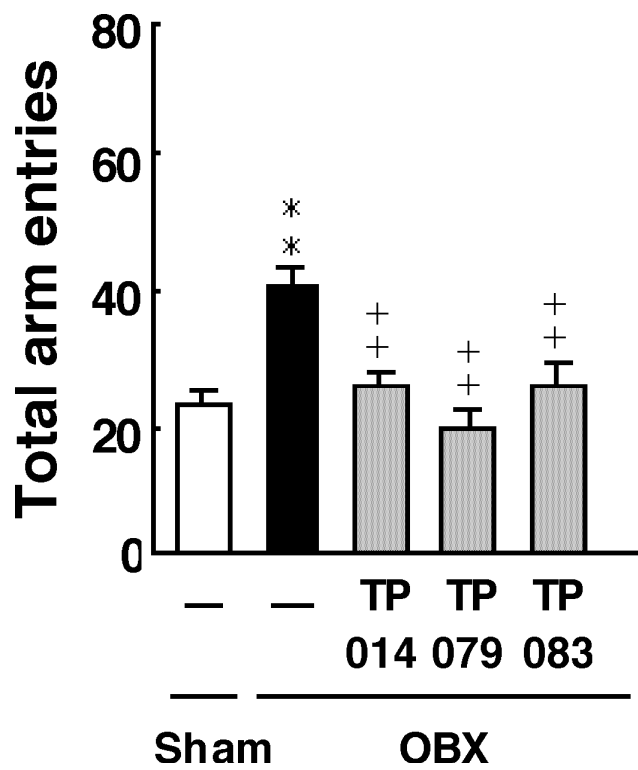


Fig. 22-4

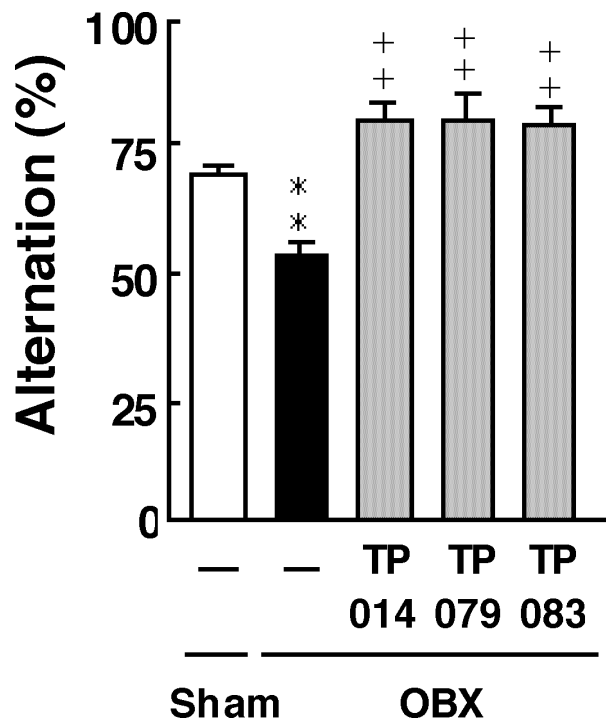


Fig. 22-5

