SEQ ID 2 1 ATG TTG CAG ATG GCT GGG CAG TGC TCC CAA AAT GAA TAT TTT GAC AGT TTG TTG CAT GCT
SEQ ID 1 1→M L Q M A G Q C S Q N E Y F D S L L H A
61 TGC ATA CCT TGT CAA CTT CGA TGT TCT TCT AAT ACT CCT CCT CTA ACA TGT CAG CGT TAT
21→C I P C Q L R C S S N T P P L T C Q R Y
121 TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA ACG AAT GCG ATT CTC TGG ACC TGT TTG
41→C N A S V T N S V K G T N A I L W T C L
181 GGA CTG AGC TTA ATA ATT TCT TTG GCA GTT TTC GTG CTA ATG TTT TTG CTA AGG AAG ATA
61→G L S L I I S L A V F V L M F L L R K I
241 AGC TCT GAA CCA TTA AAG GAC GAG TTT AAA AAC ACA GGA TCA GGT CTC CTG GGC ATG GCT
81→S S E P L K D E F K N T G S G L L G M A
301 AAC ATT GAC CTG GAA AAG AGC AGG ACT GGT GAT GAA ATT ATT CTT CCG AGA GGC CTC GAG
101→N I D L E K S R T G D E I I L P R G L E
361 TAC ACG GTG GAA TGC ACC TGT GAA GAC TGC ATC AAG AGC AAG AAA CCG AAG GTC GAC TCT
121→Y T V E E C T C E D C I K S K K P K V D S
421 GAC CAT TGC TTT CCA CTC CCA GCT ATG GAG GAA GGC GCA ACC ATT CTT GTC ACC ACG AAA
141→D H C F P L P A M E E G A T I L V T T K
481 ACG AAT GAC TAT TGC AAG AGC CTG CCA GCT GCT TTG AGT GCT ACG GAG ATA GAG AAA TCA
161→T N D Y C K S L P A A L S A T E I E K S
541 ATT TCT GCT AGG TAA
181→I S A R •

FIG. 1

FIG. 2A	FIG. 2B

FIG. 2

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1 ATG GAG ACA GAC ACA CTC CTG TTA TGG GTG CTG CTG CTC TGG GTT CCA GGT TCC ACT GGT
1▸
SEQ ID 4 1▸ M E T D T L L L W V L L L W V P G S T G
SEQ ID 3 61 GAC GTC ACG ATG TTG CAG ATG GCT GGG CAG TGC TCC CAA AAT GAA TAT TTT GAC AGT TTG
1▸ M L Q M A G Q C S Q N E Y F D S L
21▸ D V T M L Q M A G Q C S Q N E Y F D S L
121 TTG CAT GCT TGC ATA CCT TGT CAA CTT CGA TGT TCT TCT AAT ACT CCT CCT CTA ACA TGT
18▸ L H A C I P C Q L R C S S N T P P L T C
41▸ L H A C I P C Q L R C S S N T P P L T C
181 CAG CGT TAT TGT AAT GCA AGT GTG ACC AAT TCA GTG AAA GGA GTC GAC AAA ACT CAC ACA
38▸ Q R Y C N A S V T N S V K G
61▸ Q R Y C N A S V T N S V K G V D K T H T
241 TGC CCA CCG TGC CCA GCA CCT GAA CTC CTG GGG GGA CCG TCA GTC TTC CTC TTC CCC CCA

81▸ C P P C P A P E L L G G P S V F L F P P
301 AAA CCC AAG GAC ACC CTC ATG ATC TCC CGG ACC CCT GAG GTC ACA TGC GTG GTG GTG GAC

101▸ K P K D T L M I S R T P E V T C V V V D
361 GTG AGC CAC GAA GAC CCT GAG GTC AAG TTC AAC TGG TAC GTG GAC GGC GTG GAG GTG CAT

121▸ V S H E D P E V K F N W Y V D G V E V H
421 AAT GCC AAG ACA AAG CCG CGG GAG GAG CAG TAC AAC AGC ACG TAC CGT GTG GTC AGC GTC

141▸ N A K T K P R E E Q Y N S T Y R V V S V
481 CTC ACC GTC CTG CAC CAG GAC TGG CTG AAT GGC AAG GAG TAC AAG TGC AAG GTC TCC AAC

FIG. 2A

AMENDED SHEET

```
161▶ L  T  V  L  H  Q  D  W  L  N  G  K  E  Y  K  K  C  K  V  S  N
541  AAA GCC CTC CCA GCC CCC ATC GAG AAA ACC ATC TCC AAA GCC AAA GGG CAG CCC CGA GAA

181▶ K  A  L  P  A  P  I  E  K  T  I  S  K  A  K  G  Q  P  R  E
601  CCA CAG GTG TAC ACC CTG CCC CCA TCC CGG GAT GAG CTG ACC AAG AAC CAG GTC AGC CTG

201▶ P  Q  V  Y  T  L  P  P  S  R  D  E  L  T  K  N  Q  V  S  L
661  ACC TGC CTG GTC AAA GGC TTC TAT CCC AGC GAC ATC GCC GTG GAG TGG GAG AGC AAT GGG

221▶ T  C  L  V  K  G  F  Y  P  S  D  I  A  V  E  W  E  S  N  G
721  CAG CCG GAG AAC AAC TAC AAG ACC ACG CCT CCC GTG TTG GAC TCC GAC GGC TCC TTC TTC

241▶ Q  P  E  N  N  Y  K  T  T  P  P  V  L  D  S  D  G  S  F  F
781  CTC TAC AGC AAG CTC ACC GTG GAC AAG AGC AGG TGG CAG CAG GGG AAC GTC TTC TCA TGC

261▶ L  Y  S  K  L  T  V  D  K  S  R  W  Q  Q  G  N  V  F  S  C
841  TCC GTG ATG CAT GAG GCT CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCC

281▶ S  V  M  H  E  A  L  H  N  H  Y  T  Q  K  S  L  S  L  S  P
901  GGG AAA TGA

301▶ G  K  •
```

FIG. 2B

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```
                                                                  BsaAI       BbsI
  1 AAGACTCAAA CTTAGAAACT TGAATTAGAT GTGGTATTCA AATCCTTACG TGCCGCGAAG
 61 ACACAGACAG CCCCCGTAAG AACCCACGAA GCAGGCGAAG TTCATTGTTC TCAACATTCT
                                    EcoRI
121 AGCTGCTCTT GCTGCATTTG CTCTGGAATT CTTGTAGAGA TATTACTTGT CCTTCCAGGC
          SfcI                      BclI
181 TGTTCTTTCT GTAGCTCCCT TGTTTTCTTT TTGTGATCAT GTTGCAGATG GCTGGGCAGT
                                        1▶ M  L  Q  M  A  G  Q
                  SspI                      SphI              HincII
241 GCTCCCAAAA TGAATATTTT GACAGTTTGT TGCATGCTTG CATACCTTGT CAACTTCGAT
  8▶C  S  Q  N  E  Y  F  D  S  L  L  H  A  C  I  P  C  Q  L  R
                                 Pci I
                                 AflIII
301 GTTCTTCTAA TACTCCTCCT CTAACATGTC AGCGTTATTG TAATGCAAGT GTGACCAATT
 28▶C  S  S  N  T  P  P  L  T  C  Q  R  Y  C  N  A  S  V  T  N
                                                BsmFI
361 CAGTGAAAGG AACGAATGCG ATTCTCTGGA CCTGTTTGGG ACTGAGCTTA ATAATTTCTT
 48▶S  V  K  G  T  N  A  I  L  W  T  C  L  G  L  S  L  I  I  S
421 TGGCAGTTTT CGTGCTAATG TTTTTGCTAA GGAAGATAAG CTCTGAACCA TTAAAGGACG
 68▶L  A  V  F  V  L  M  F  L  L  R  K  I  S  S  E  P  L  K  D
      DraI          AlwI  BsaI
481 AGTTTAAAAA CACAGGATCA GGTCTCCTGG GCATGGCTAA CATTGACCTG GAAAAGAGCA
 88▶E  F  K  N  T  G  S  G  L  L  G  M  A  N  I  D  L  E  K  S
                 XmnI                 StuI XhoI
541 GGACTGGTGA TGAAATTATT CTTCCGAGAG GCCTCGAGTA CACGGTGGAA GAATGCACCT
108▶R  T  G  D  E  I  I  L  P  R  G  L  E  Y  T  V  E  E  C  T
                                    SalI
                                    HincII
      BbsI                          AccI
601 GTGAAGACTG CATCAAGAGC AAACCGAAGG TCGACTCTGA CCATTGCTTT CCACTCCCAG
128▶C  E  D  C  I  K  S  K  P  K  V  D  S  D  H  C  F  P  L  P
661 CTATGGAGGA AGGCGCAACC ATTCTTGTCA CCACGAAAAC GAATGACTAT TGCAAGAGCC
148▶A  M  E  E  G  A  T  I  L  V  T  T  K  T  N  D  Y  C  K  S
      PvuII
721 TGCCAGCTGC TTTGAGTGCT ACGGAGATAG AGAAATCAAT TTCTGCTAGG TAATTAACCA
168▶L  P  A  A  L  S  A  T  E  I  E  K  S  I  S  A  R
          XhoI                  DraI                              BglII
781 TTTCGACTCG AGCAGTGCCA CTTTAAAAAT CTTTTGTCAG AATAGATGAT GTGTCAGATC
841 TCTTTAGGAT GACTGTATTT TTCAGTTGCC GATACAGCTT TTTGTCCTCT AACTGTGGAA
                                                                  StyI
901 ACTCTTTATG TTAGATATAT TTCTCTAGGT TACTGTTGGG AGCTTAATGG TAGAAACTTC
961 CTTGGTTTCA TGATTAAAGT CTTTTTTTTT CCTGA
```

FIG. 3

AMENDED SHEET

SRUCTURE COMPARISON BETWEEN TNF-R55 AND BAFF-R

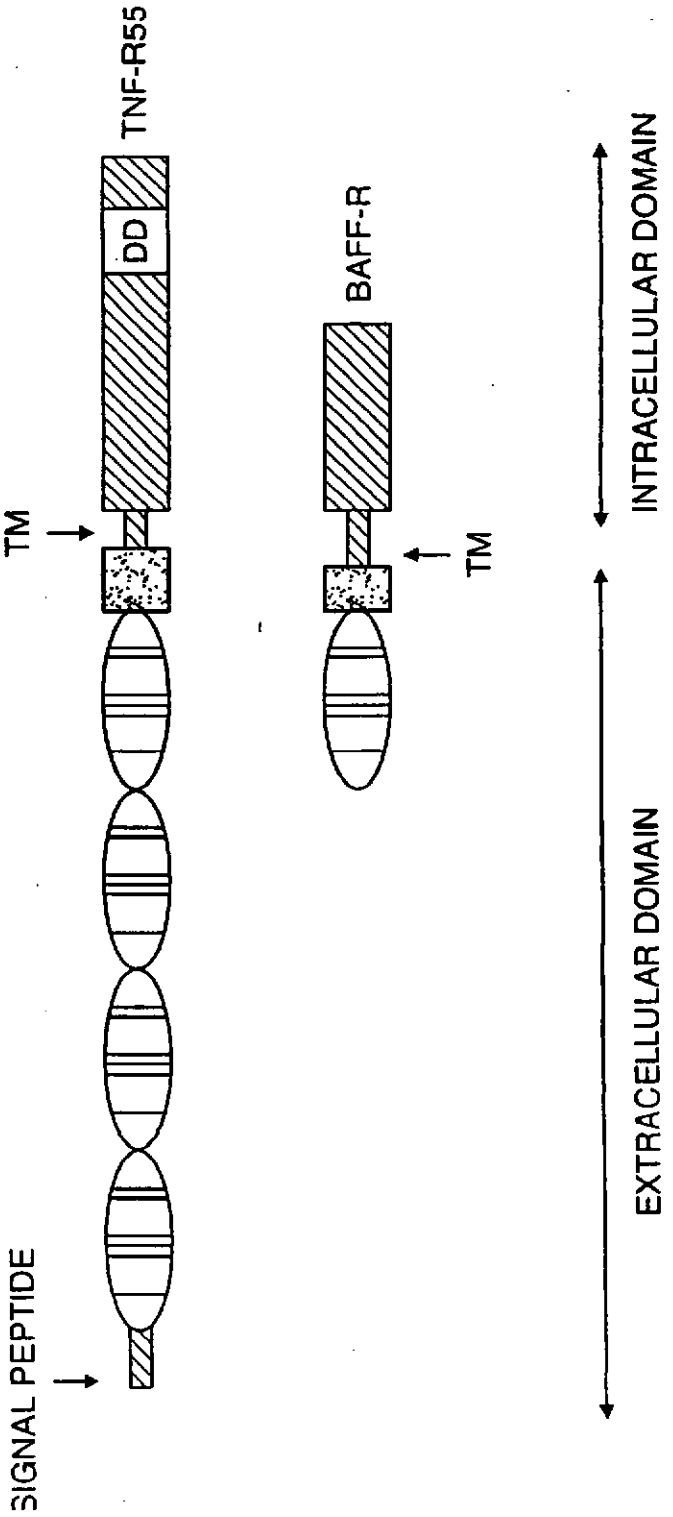


FIG. 4

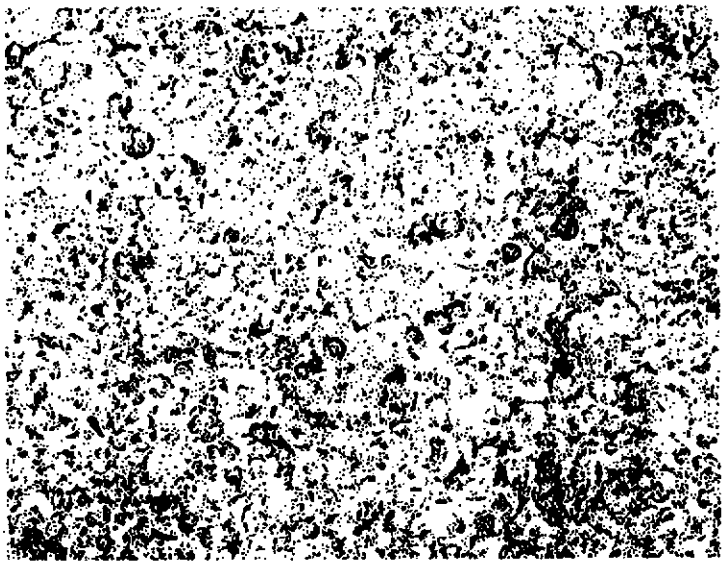


FIG. 5A

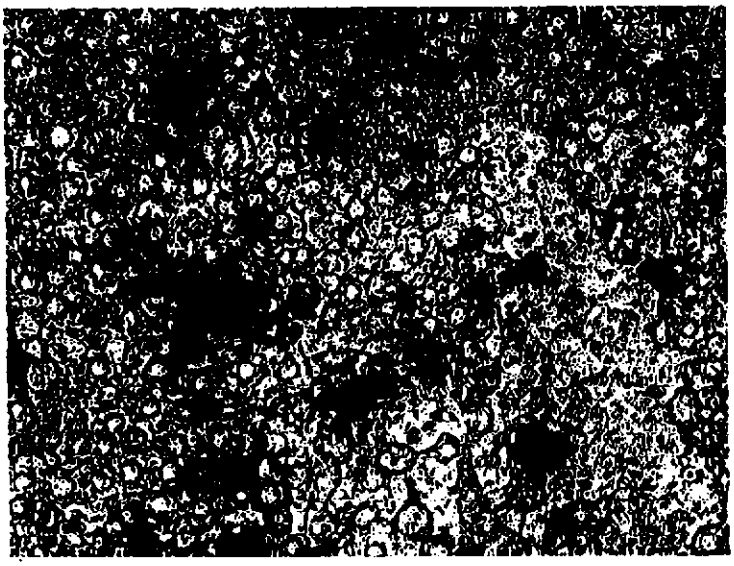
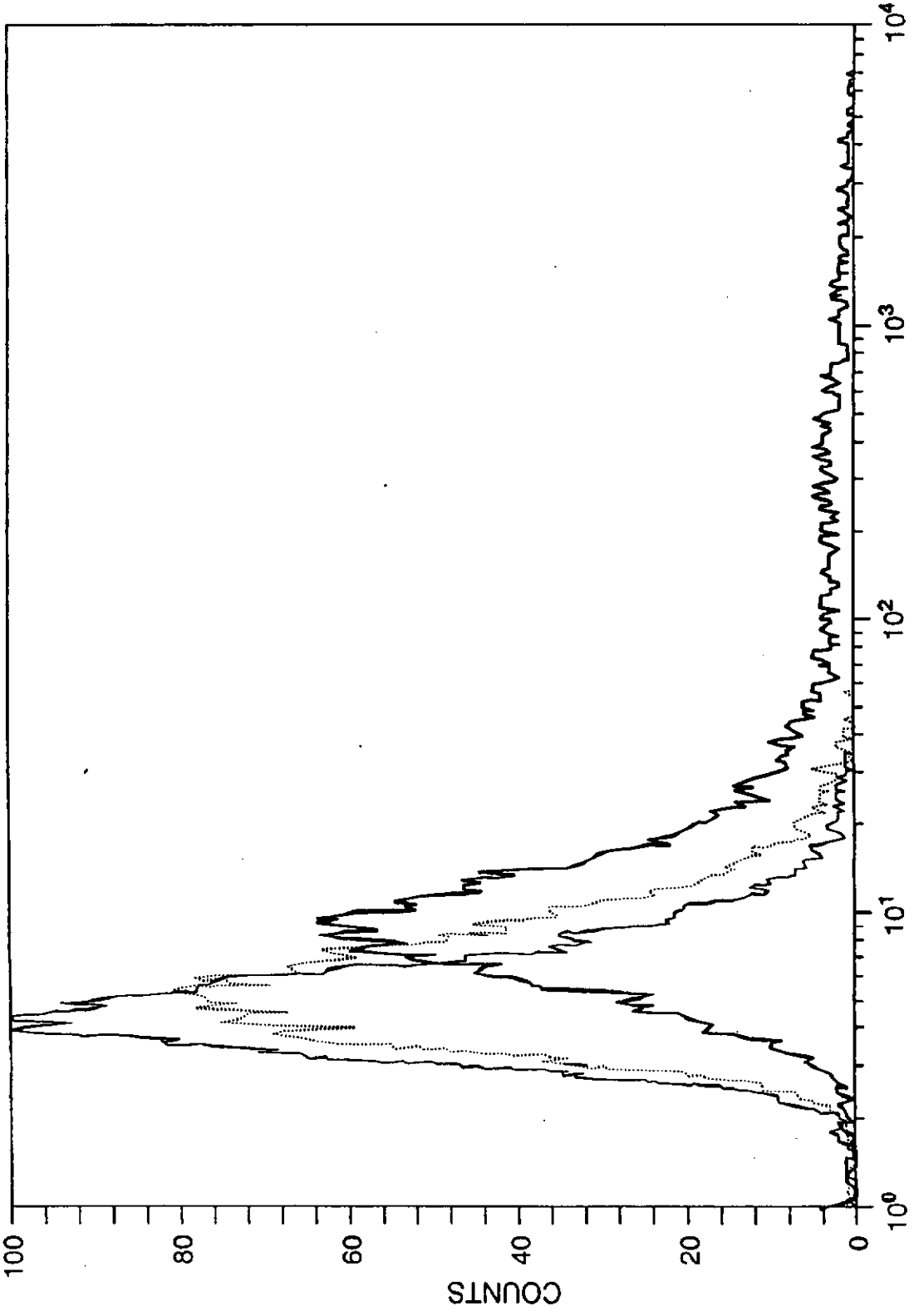


FIG. 5B

FIG. 6A



Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.26	3.80	61.34	3.65
M1	17.	9910	65	0.65	0.65	23.23	22.44	30.37	20.35

FIG. 6B-1

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	4.61	4.11	61.98	3.89
M1	17.	9910	79	0.79	0.79	22.88	21.98	34.94	19.63

FIG. 6B-2

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	5.51	4.93	58.41	4.66
M1	17.	9910	130	1.30	1.30	23.55	22.98	23.39	22.57

FIG. 6B-3

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	108.24	15.40	459.27	10.27
M1	17.	9910	2785	27.85	27.85	366.10	85.21	243.61	45.32

FIG. 6B-4

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	72.53	11.42	516.47	7.84
M1	17.	9910	2054	20.54	20.54	324.52	88.86	239.37	61.80

FIG. 6B-5

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	51.15	9.41	566.98	6.67
M1	17.	9910	1673	16.73	16.73	272.40	81.97	244.63	54.25

FIG. 6B-6

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	26.59	7.74	576.94	5.94
M1	17.	9910	1313	13.13	13.13	161.35	60.77	246.67	42.94

FIG. 6B-7

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	12.39	6.54	405.32	5.47
M1	17.	9910	876	8.76	8.76	78.94	43.41	195.84	33.68

FIG. 6B-8

Marker	Left	Right	Events	% Gated	% Total	Mean	Geo Mean	CV	Median
All	1.	9910	10000	100.00	100.00	6.99	6.60	69.06	5.67
M1	17.	9910	393	3.93	3.93	24.33	23.31	33.78	21.48

FIG. 6B-9

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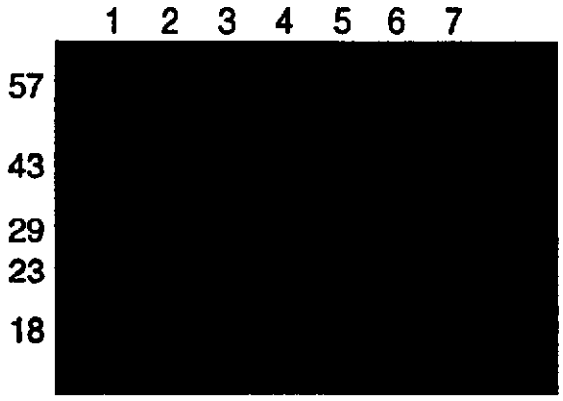


FIG. 7

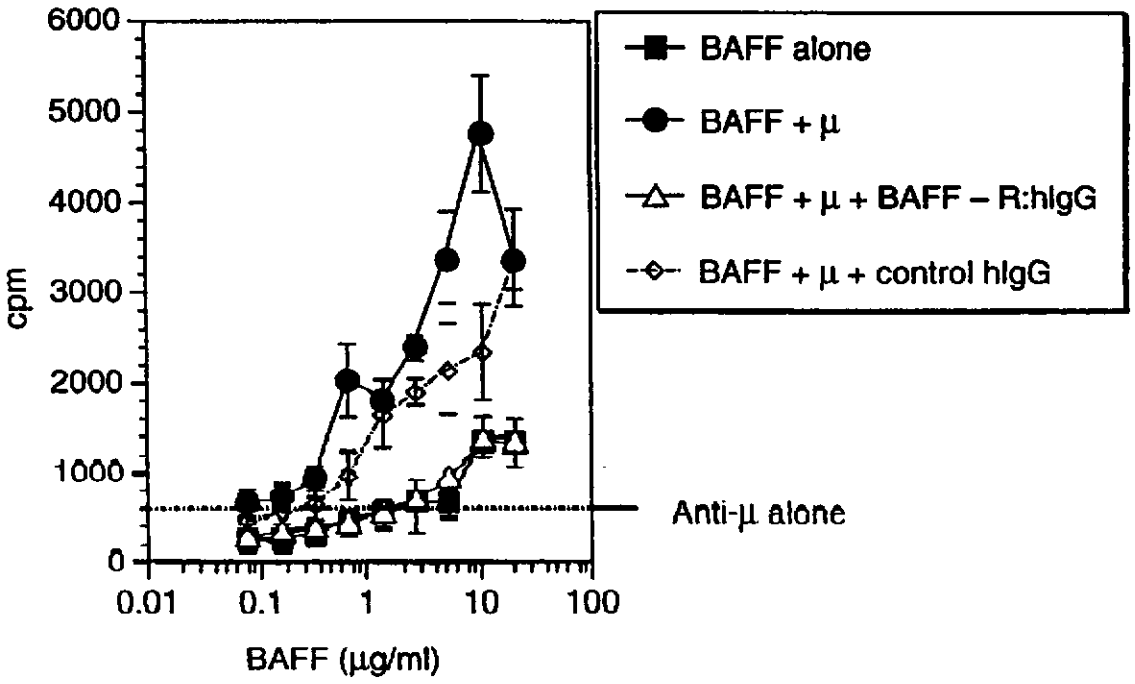


FIG. 8

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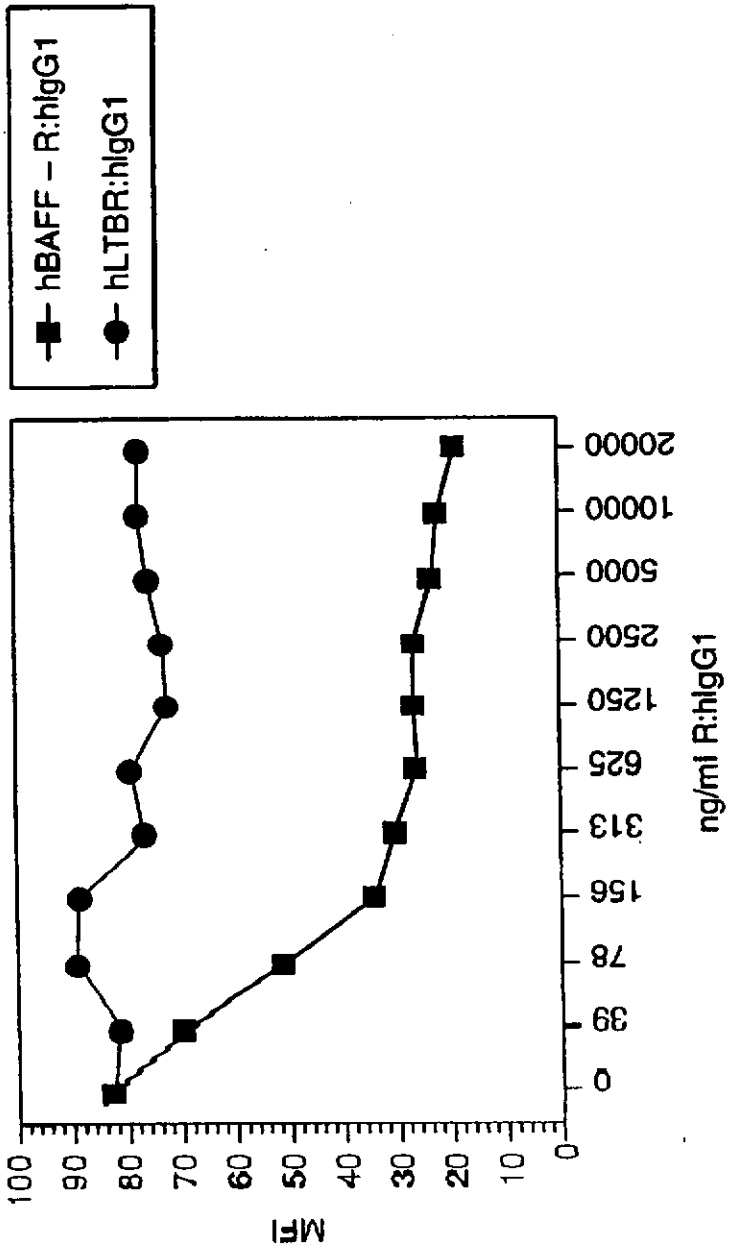


FIG. 9

FIG. 10A

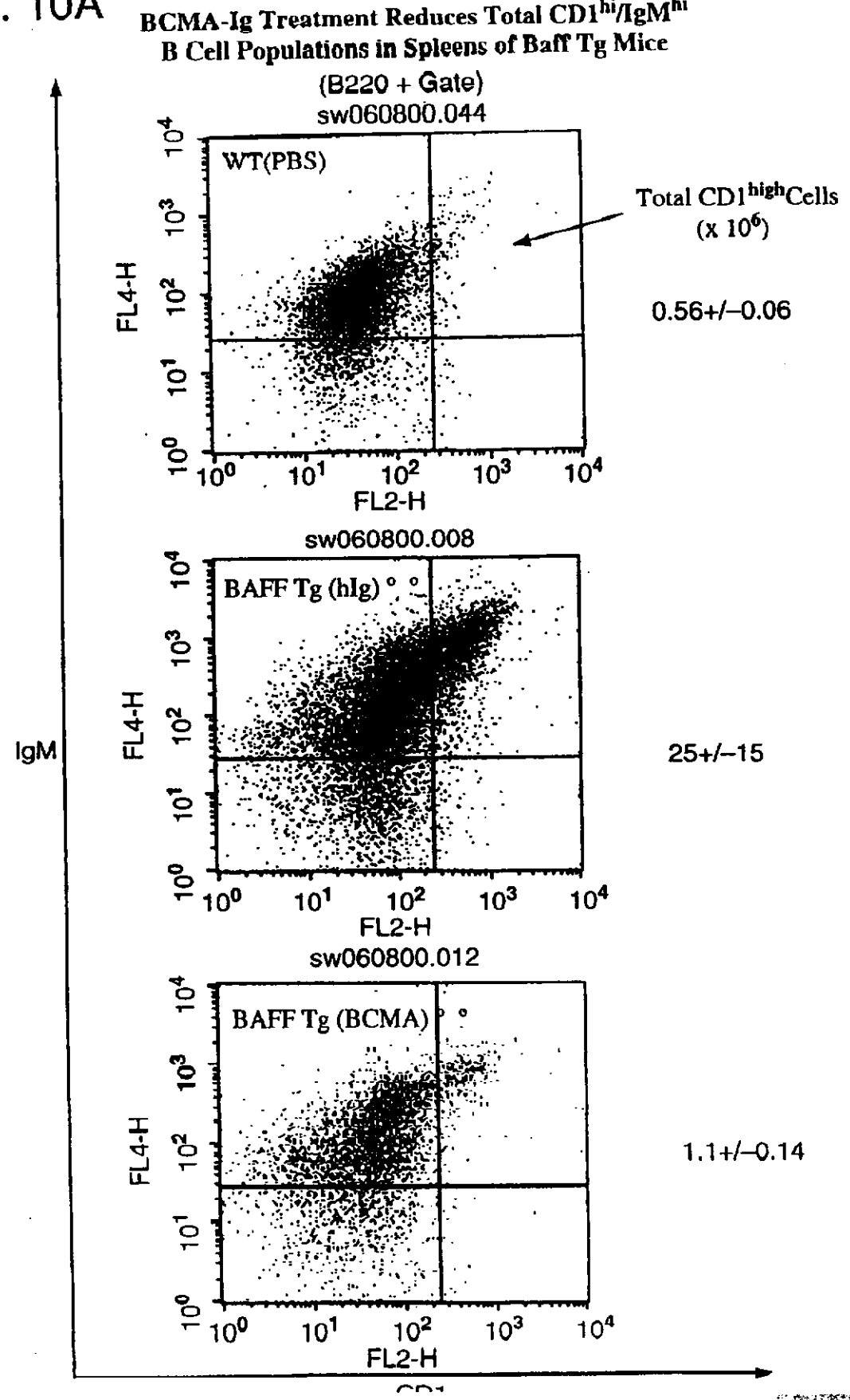
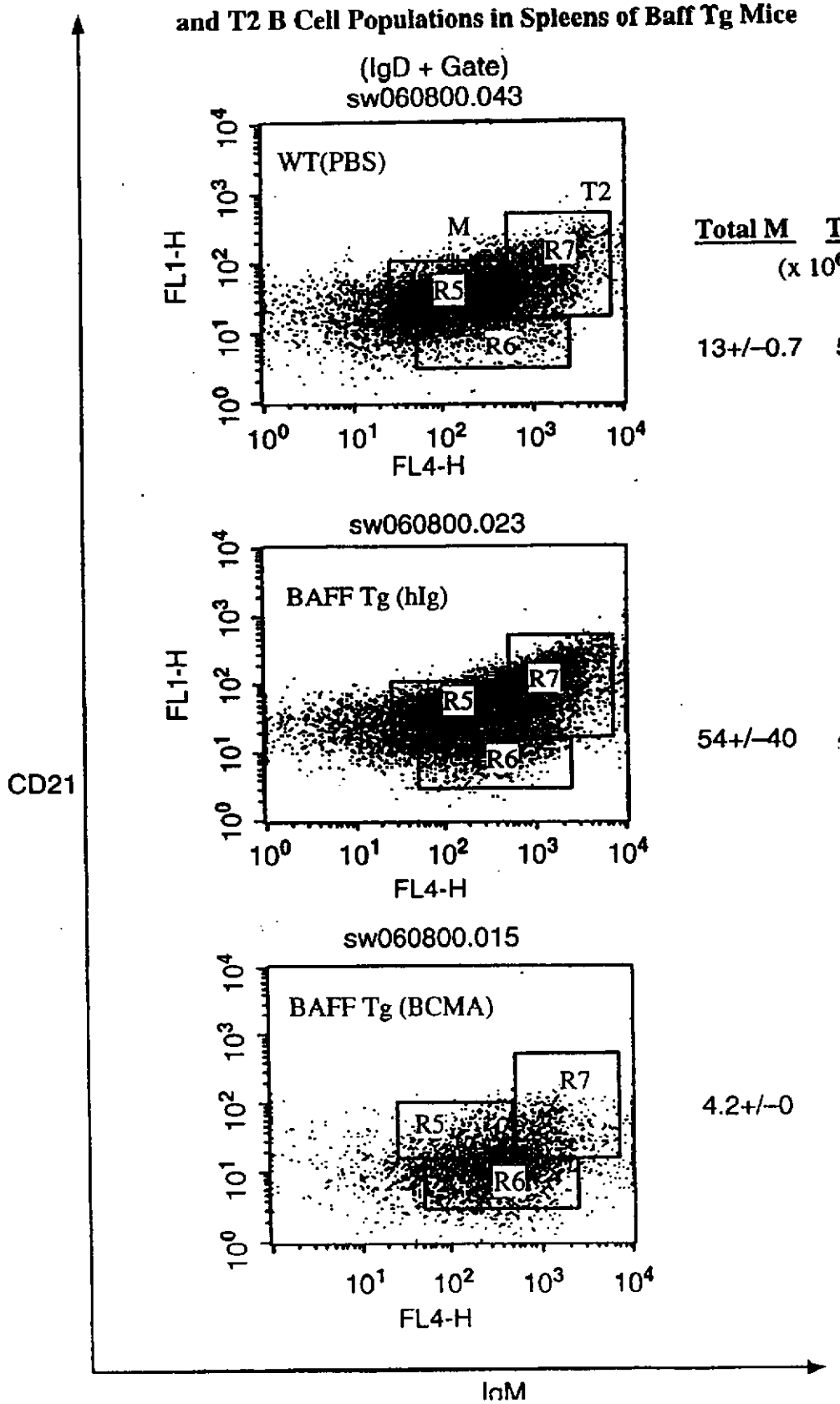

BCMA-Ig Treatment Reduces Total CD1hi/IgMhi
B Cell Populations in Spleens of Baff Tg Mice
(B220 + Gate)
sw060800.044
WT(PBS)
Total CD1highCells
(x 10^6)
0.56+/–0.06
sw060800.008
BAFF Tg (hIg)
25+/–15
sw060800.012
BAFF Tg (BCMA)
1.1+/–0.14
IgM
FL4-H
FL2-H
CD1

FIG. 10B

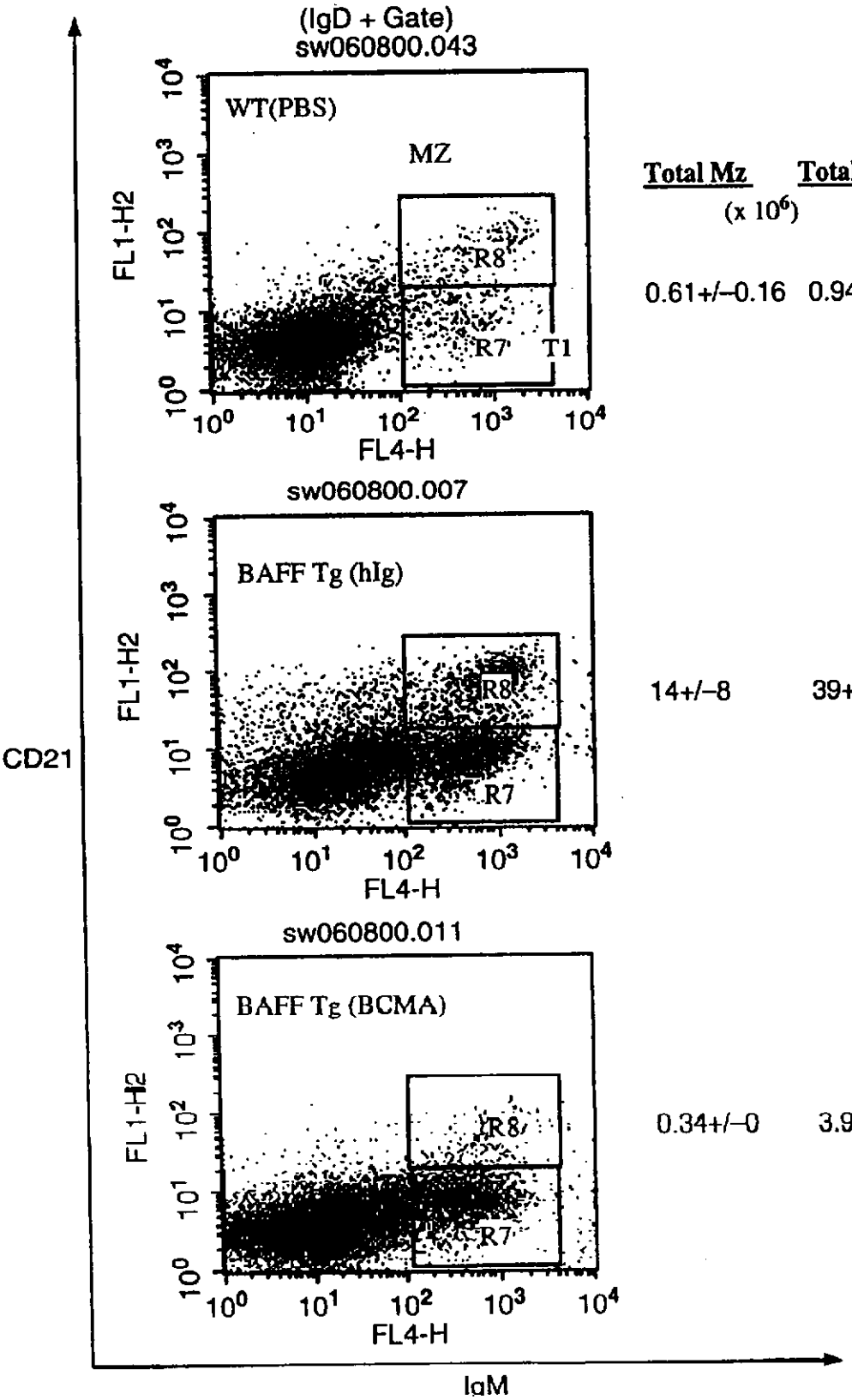
BCMA-Ig Treatment Reduces Total Mature B and T2 B Cell Populations in Spleens of Baff Tg Mice



	Total M (x 10^6)	Total T2 (x 10^6)
WT(PBS)	13+/–0.7	5.7+/–0.63
BAFF Tg (hIg)	54+/–40	41+/–36
BAFF Tg (BCMA)	4.2+/–0	3+/–0.28

FIG. 10C

BCMA-Ig Treatment Reduces Total Marginal Zone and T1 B Cell Populations in Spleens of Baff Tg Mice



	Total Mz (x 10^6)	Total T1
WT(PBS)	0.61+/–0.16	0.94+/–0.08
BAFF Tg (hIg)	14+/–8	39+/–20
BAFF Tg (BCMA)	0.34+/–0	3.9+/–1.8

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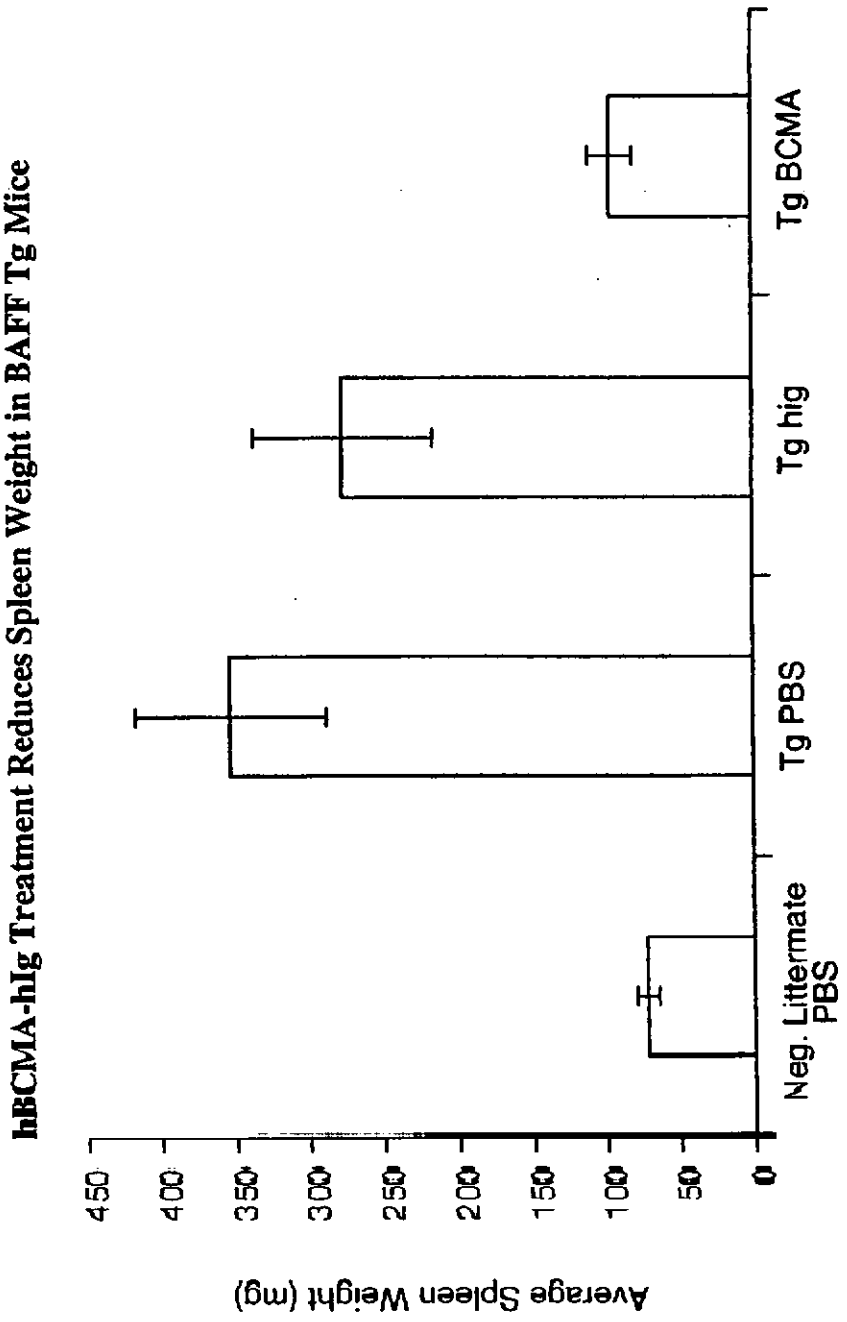


FIG. 11

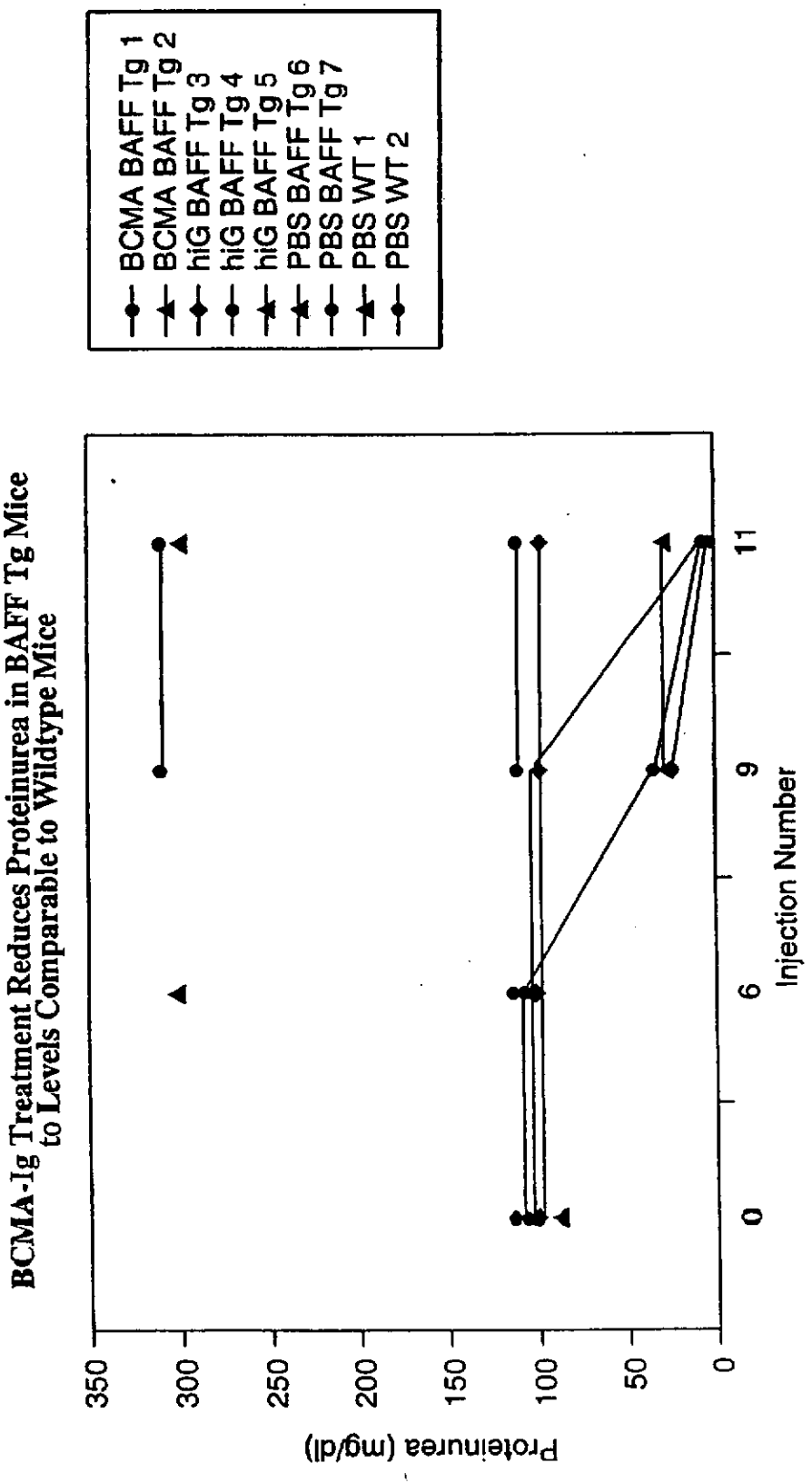

BCMA-Ig Treatment Reduces Proteinurea in BAFF Tg Mice to Levels Comparable to Wildtype Mice
BCMA BAFF Tg 1
BCMA BAFF Tg 2
hiG BAFF Tg 3
hiG BAFF Tg 4
hiG BAFF Tg 5
PBS BAFF Tg 6
PBS BAFF Tg 7
PBS WT 1
PBS WT 2
Proteinurea (mg/dl)
350
300
250
200
150
100
50
0
0
6
9
11
Injection Number

FIG. 12

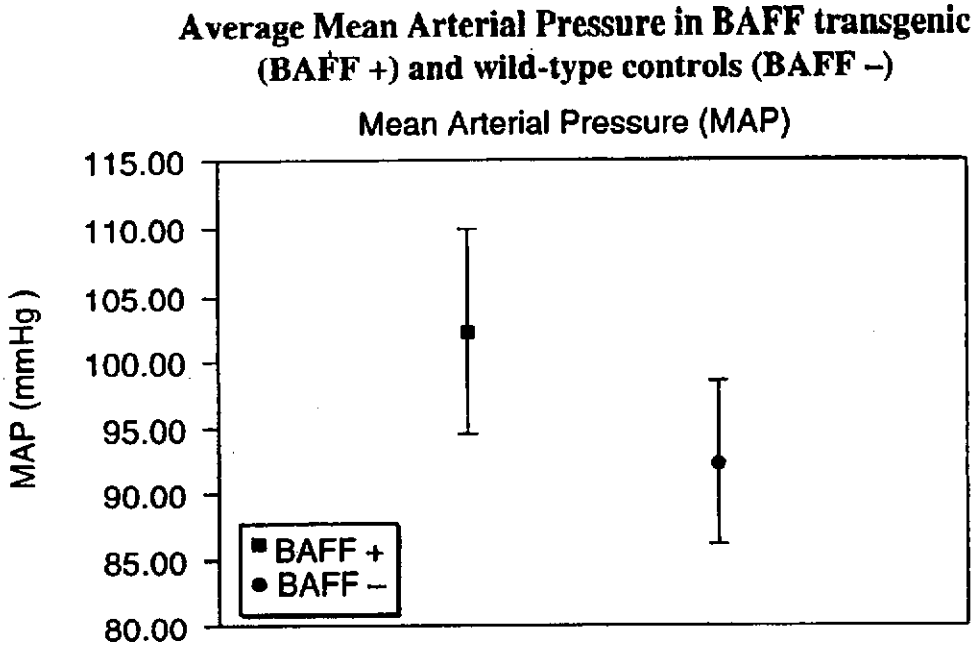

Average Mean Arterial Pressure in BAFF transgenic (BAFF +) and wild-type controls (BAFF –)
Mean Arterial Pressure (MAP)
MAP (mmHg)
115.00
110.00
105.00
100.00
95.00
90.00
85.00
80.00
BAFF +
BAFF –

FIG. 13

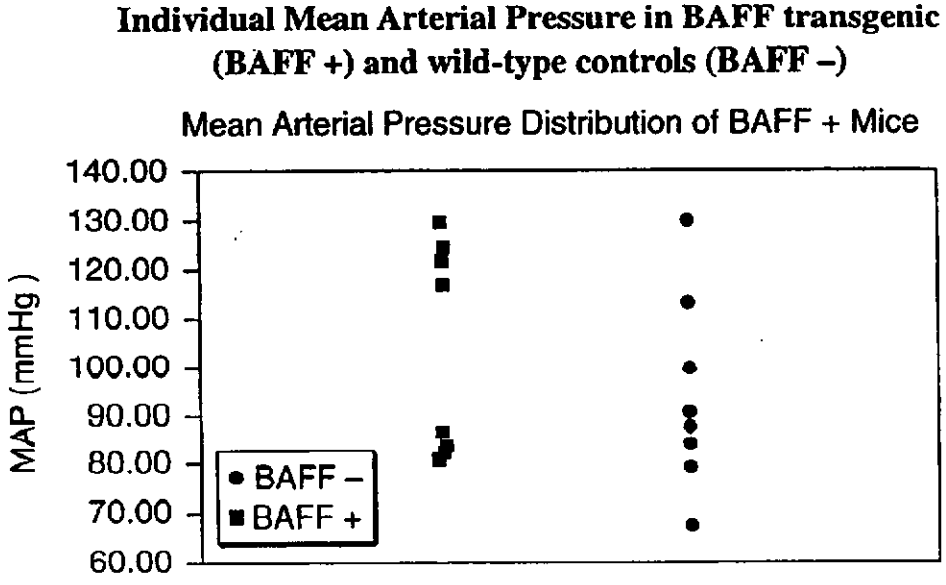

Individual Mean Arterial Pressure in BAFF transgenic (BAFF +) and wild-type controls (BAFF –)
Mean Arterial Pressure Distribution of BAFF + Mice
MAP (mmHg)
140.00
130.00
120.00
110.00
100.00
90.00
80.00
70.00
60.00
BAFF –
BAFF +

FIG. 14

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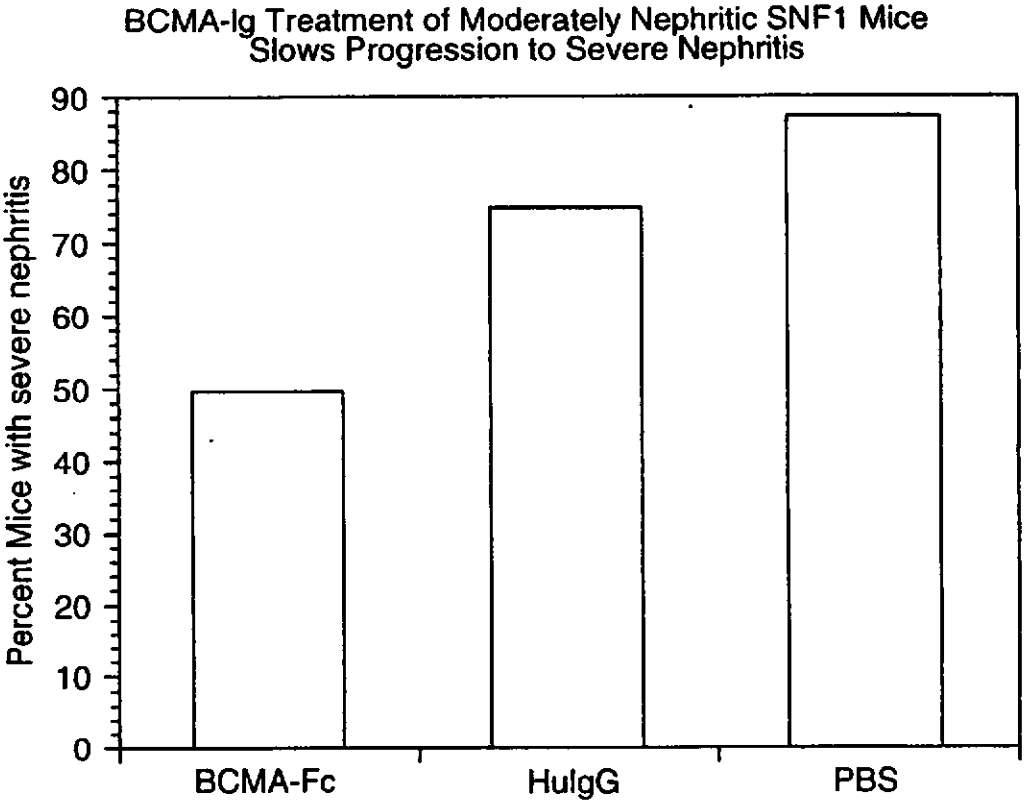


FIG. 15

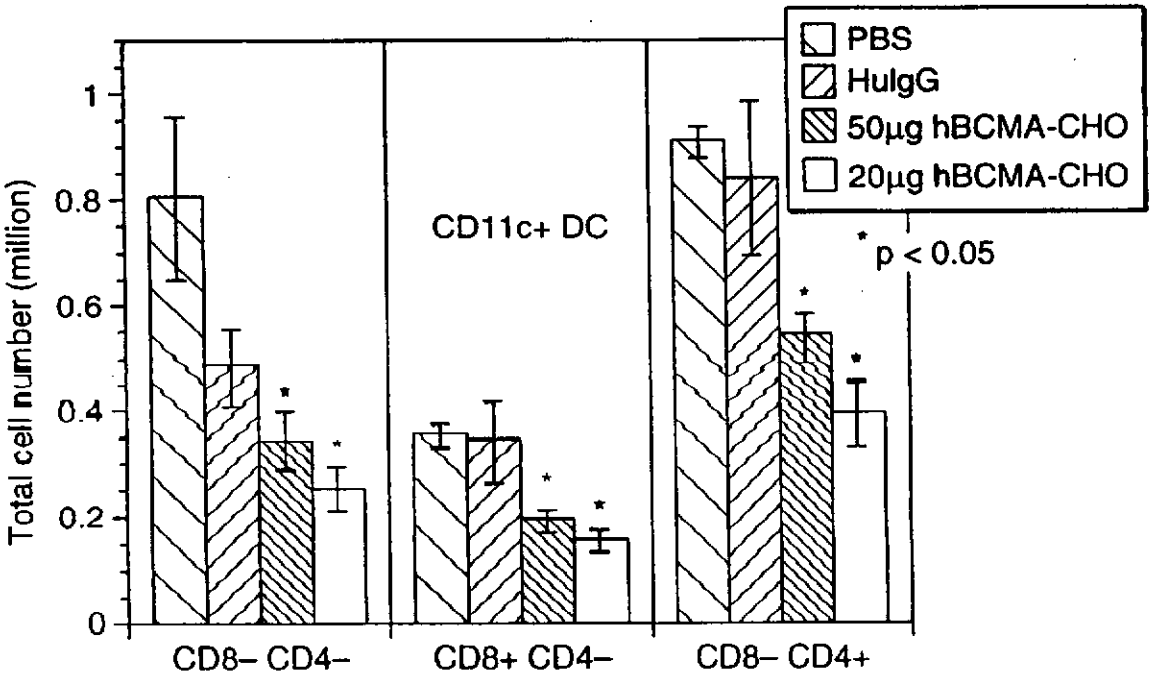


FIG. 16