



FIG. 1A

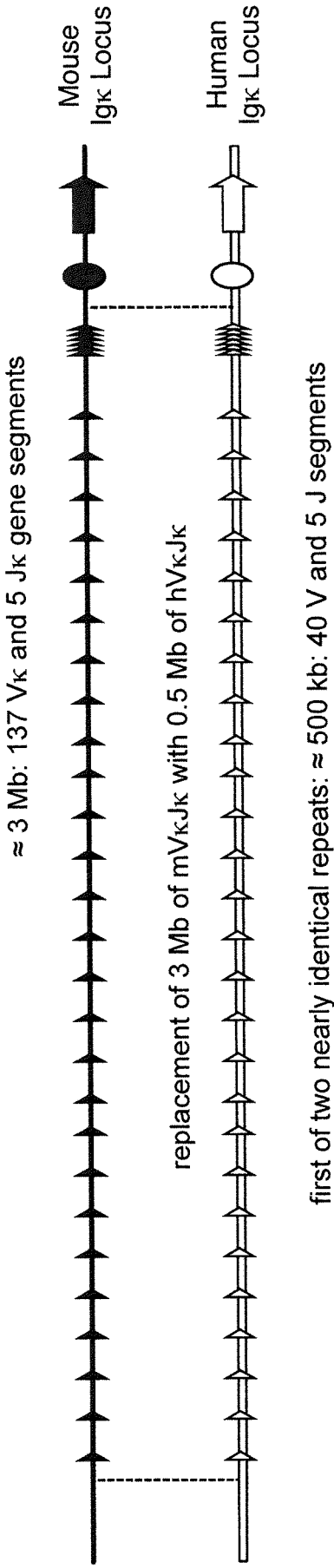


FIG. 1B

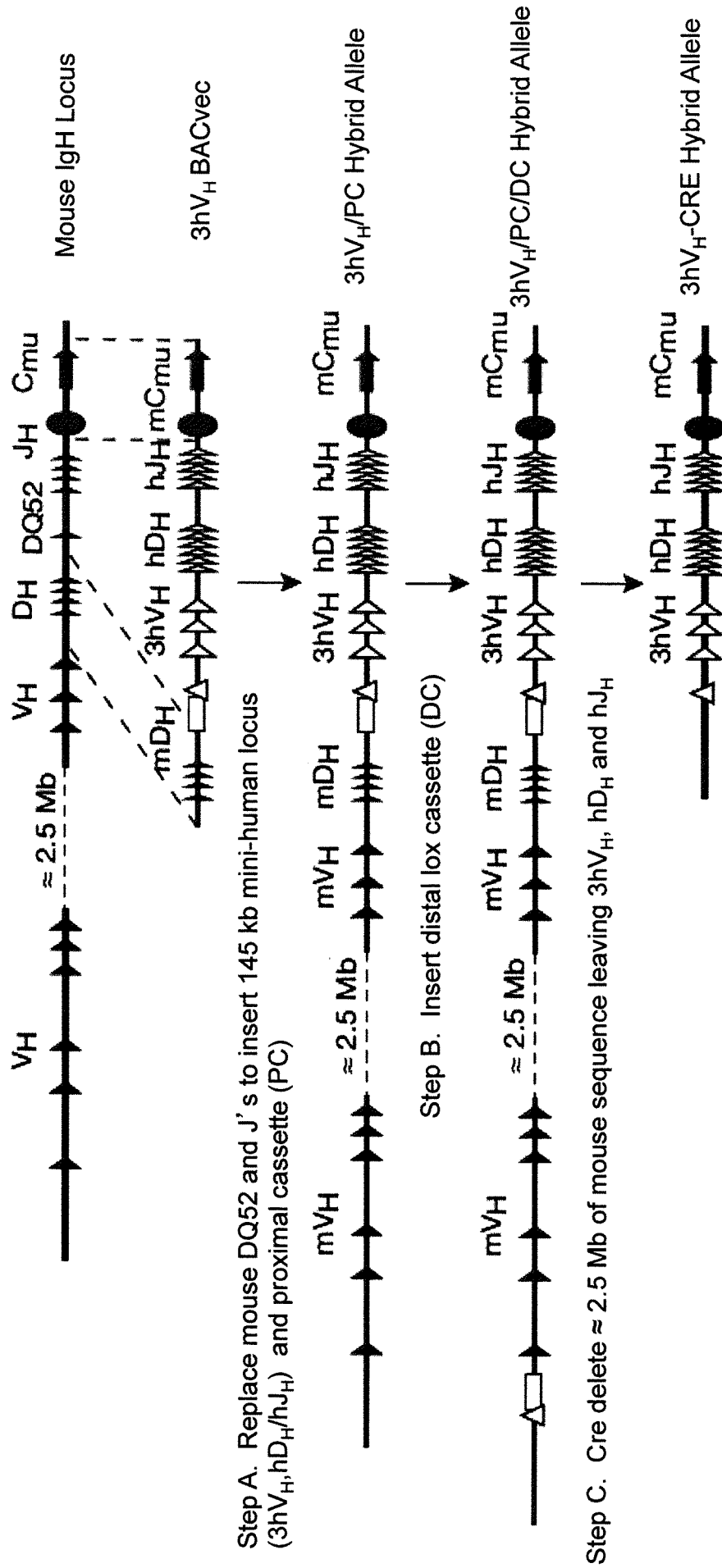


FIG. 2A

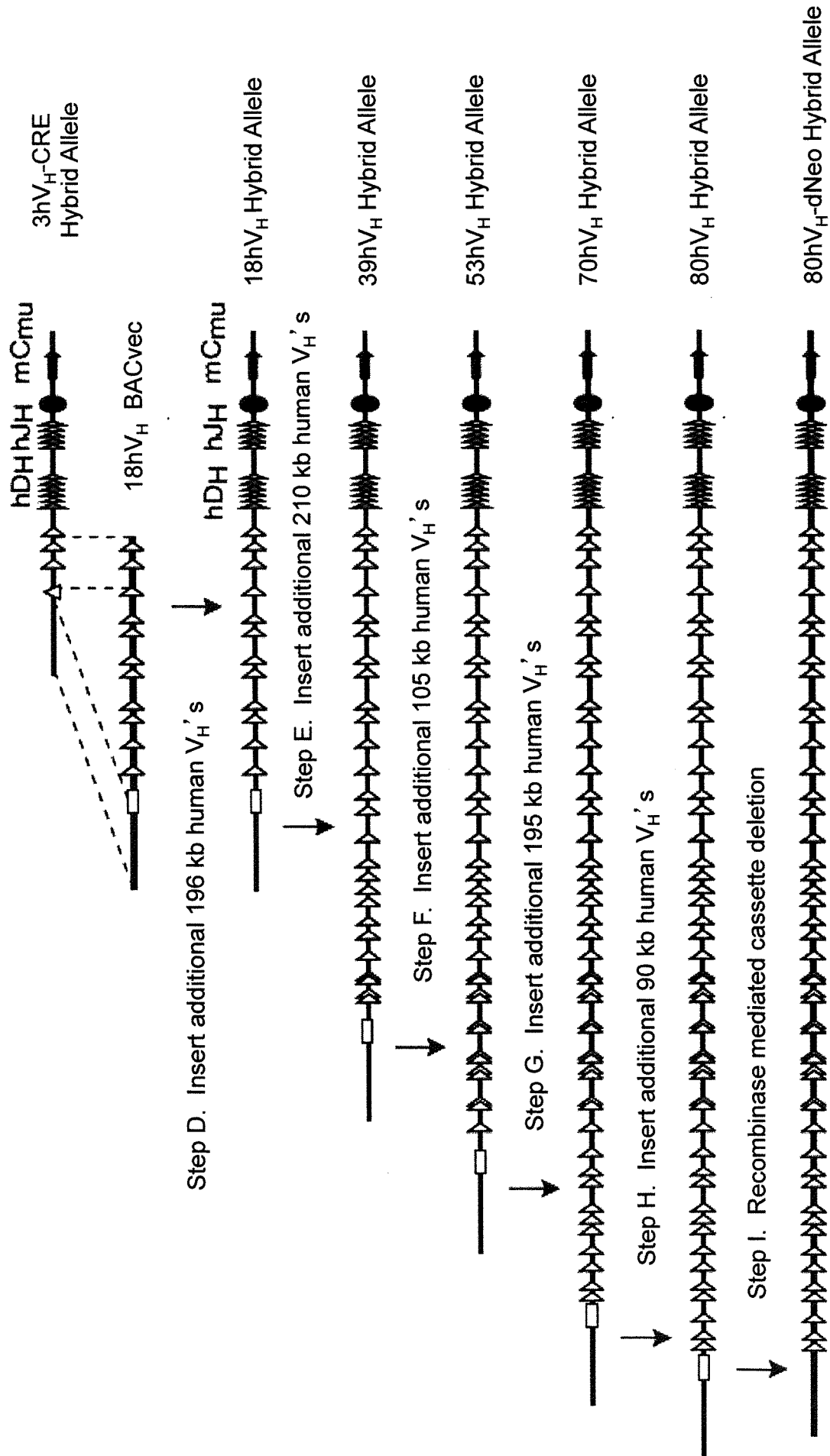


FIG. 2B

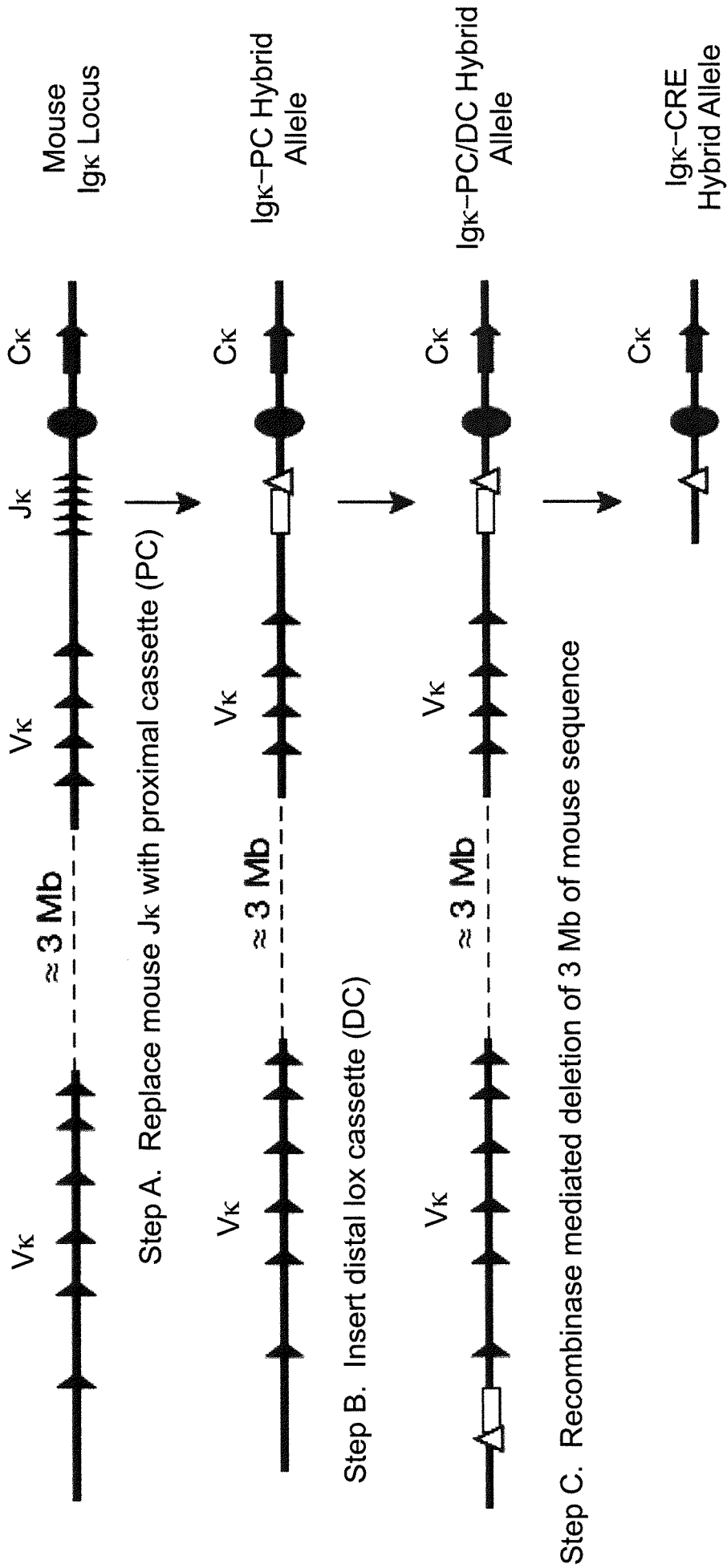


FIG. 2C

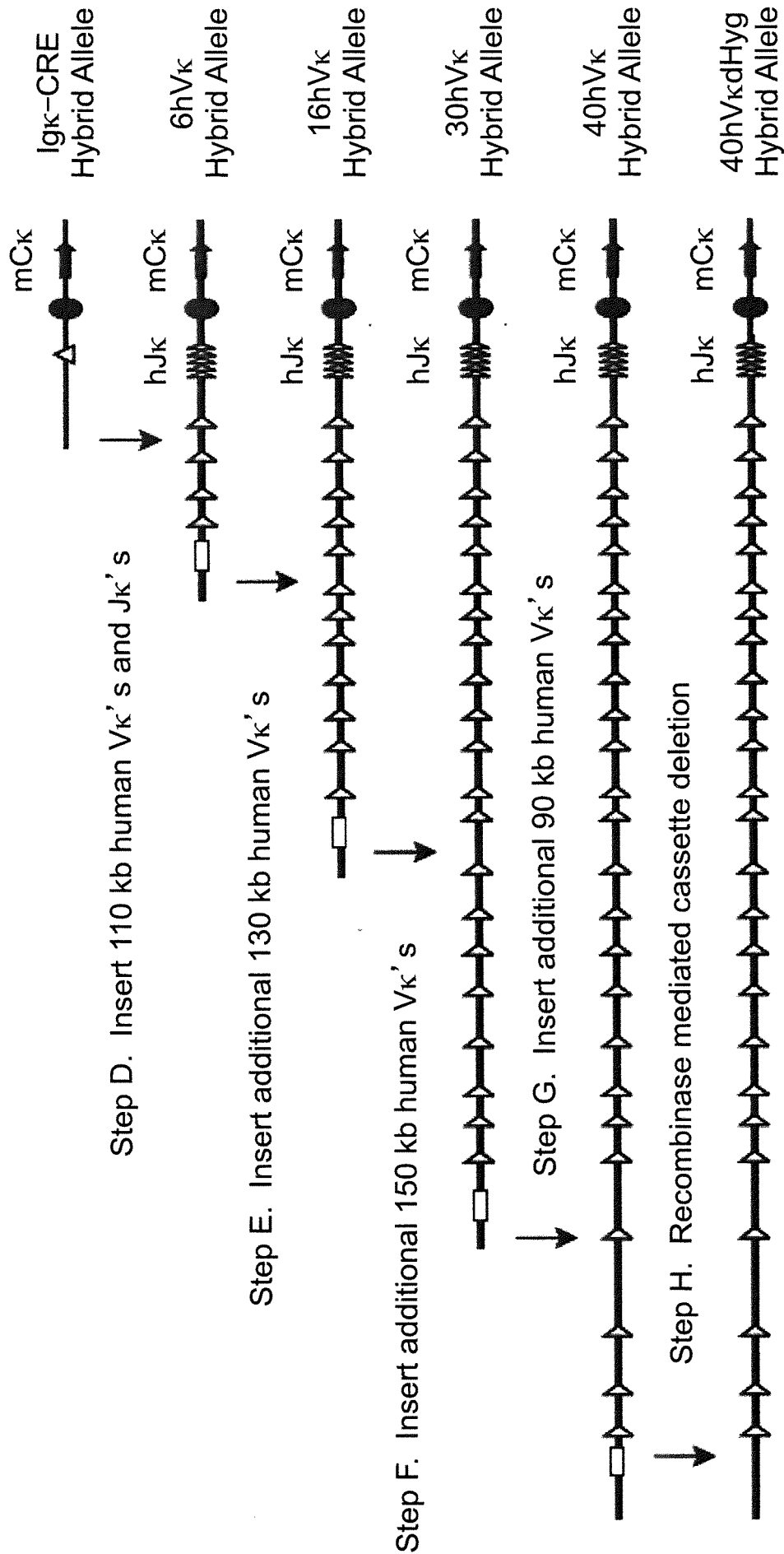


FIG. 2D

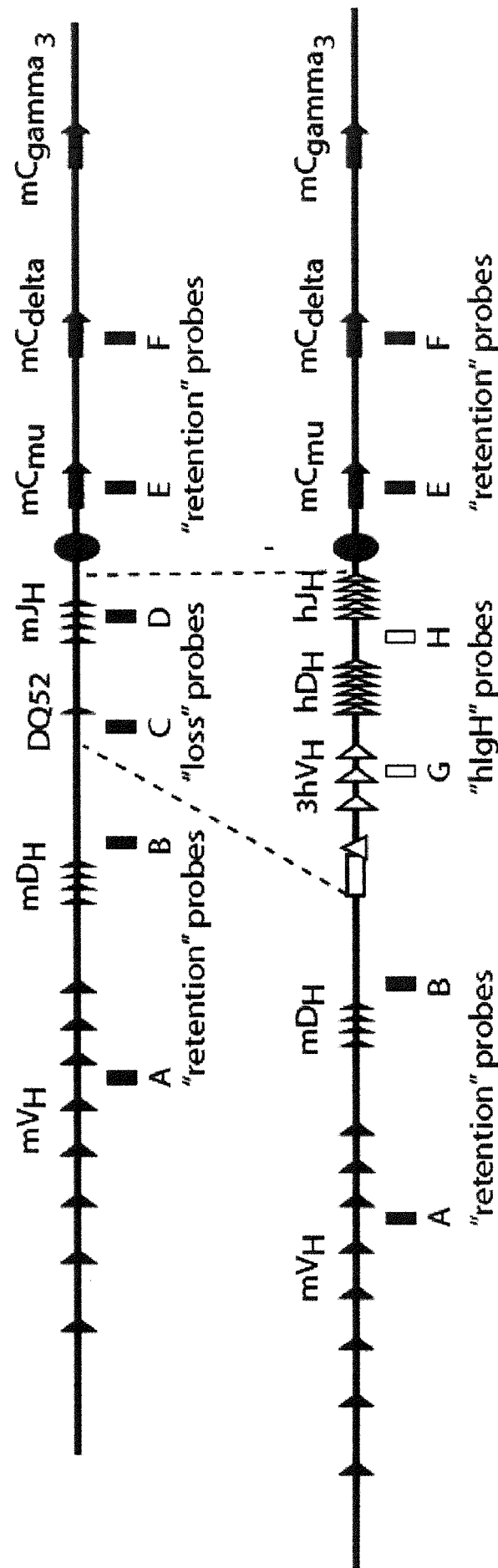


FIG. 3A

		A	B	C	D	E	F	G	H
Parental ES	Theoretical copy number	2	2	2	2	2	2	0	0
	Observed copy number	1.9	1.8	2.1	1.8	1.9	1.8	<0.01	<0.04
Modified ES	Theoretical copy number	2	2	1	1	2	2	1	1
	Observed copy number	1.9	2.4	1.0	1.0	2.0	1.9	+	+

FIG. 3B

	copy number	D	H
WT Mice	Theoretical	2	0
	Observed 1	1.71	< 0.01
	Observed 2	2.07	< 0.01
	Observed 3	2.16	< 0.01
	Observed 4	1.88	< 0.01
Het Mice	Theoretical	1	1
	Observed 1	1.22	1.04
	Observed 2	0.94	1.02
	Observed 3	0.85	0.95
	Observed 4	1.02	1.00
Homo Mice	Theoretical	0	2
	Observed 1	< 0.01	2.37
	Observed 2	< 0.01	2.22
	Observed 3	< 0.01	2.43
	Observed 4	< 0.01	1.93

FIG. 3C

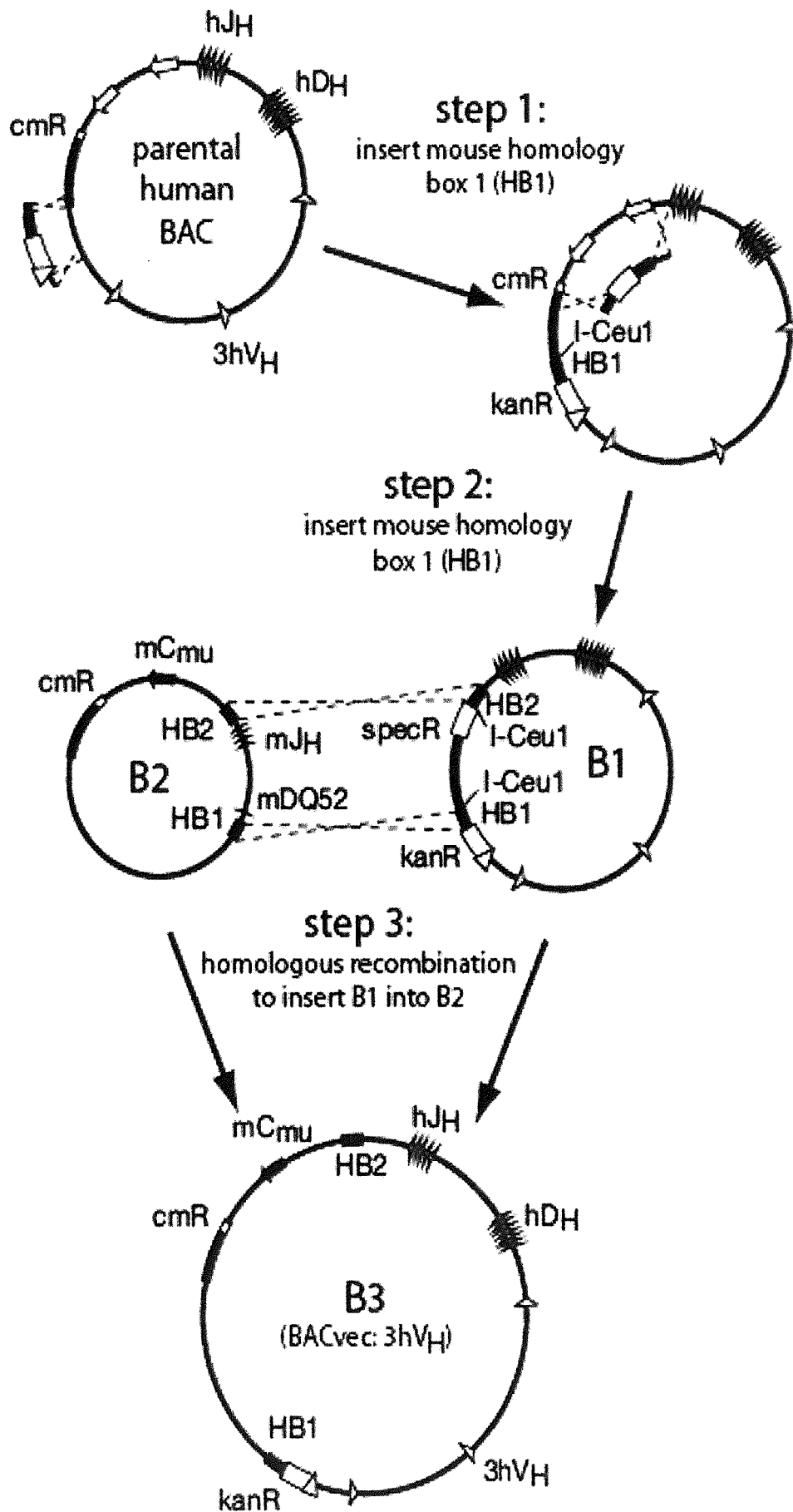


FIG. 4A

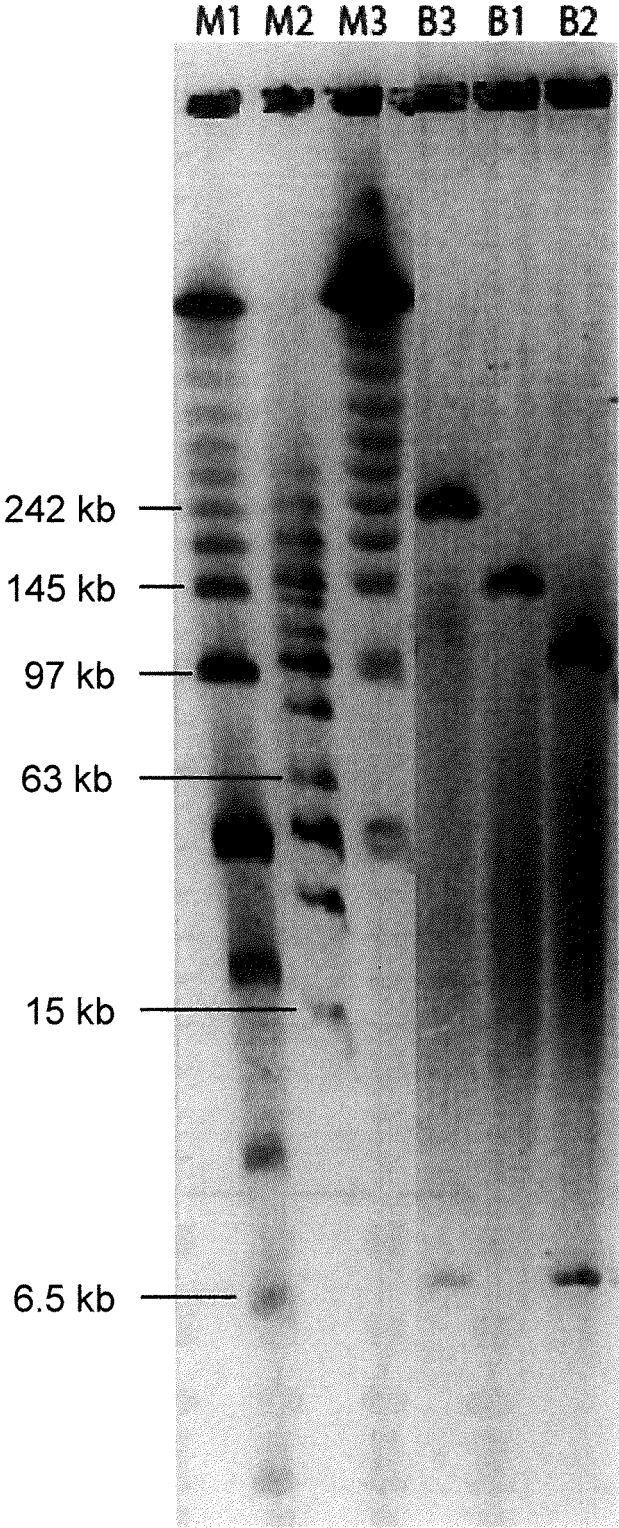


FIG. 4B

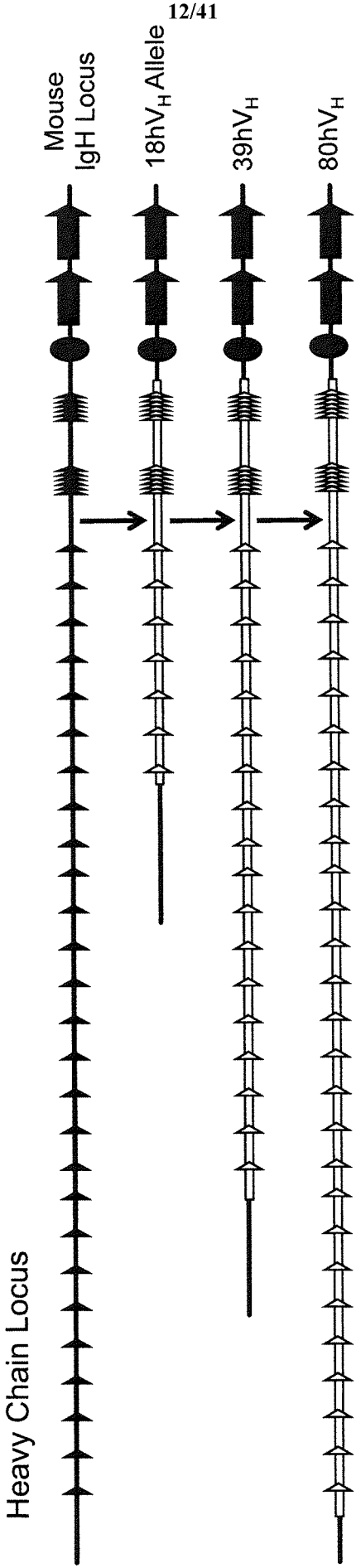


FIG. 5A

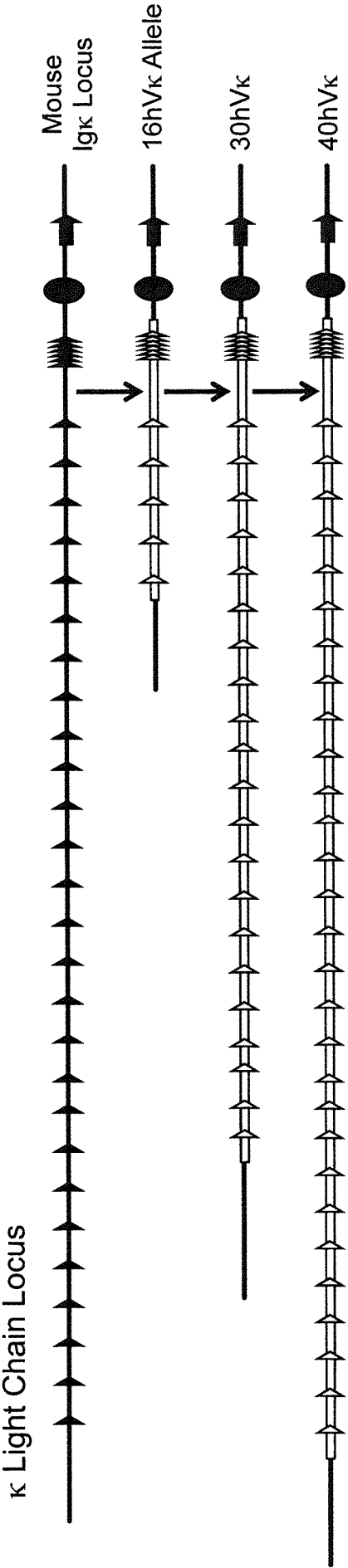


FIG. 5B

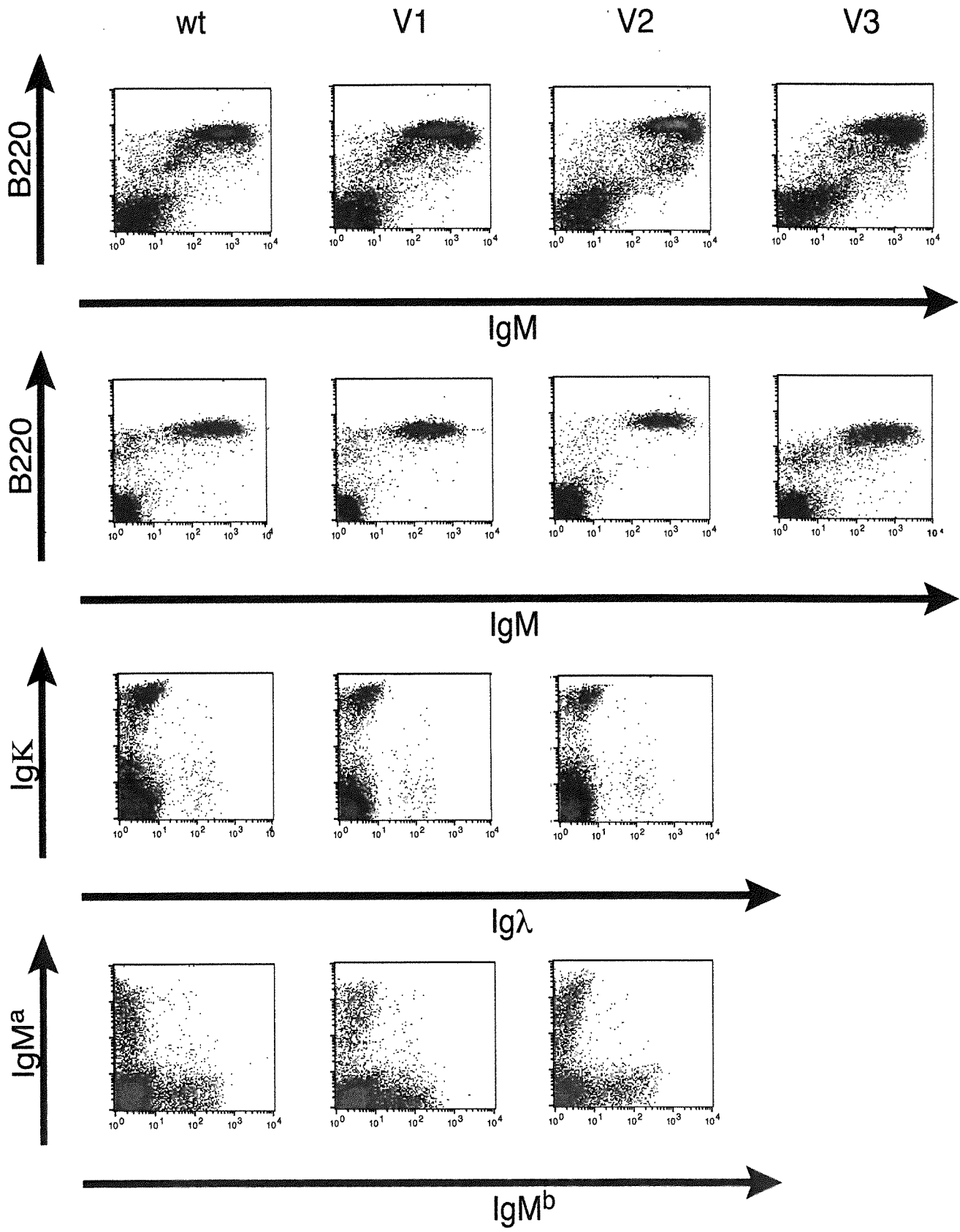


FIG. 6

3'V _H	N	D _H	N	5'J _H
(3-72) GCTAG	(D _H 1-26)	GGTATAGTGGGAGCTACTAC		
(3-9) GCAAAAG		TAGTGGGGcCTAC	AGGC	CTTTTGATATC (3)
(3-7) GCGAGAGA	CCCAGGGG	AGTGGGAGCTACTAC	ACCT	ATGCTTTTGATATC (3)
(4-59) GCGAGAG	G	GGTATAGTGGGAaCTACT	GAGG	ACTTTGATtTAC (4)
(3-23) GCGAAA	GGAC	AGTGGGAGC	CCT	CTTTGACTAC (4)
	CC	TAGTGGGAGCTACT	C	CTGGTTCGACCCC (5)
	(D _H 1-7)	GGTAAACTGGAAC		
(4-34) GCGAGAGG	AGGAG	GGTATAAAGTGAAC	CGA	ATGCTTTTGATATC (3)
(1-2) GCGAGAG	GA	TATAACTGGA		ACTACTTTGACTAC (4)
(3-23) GCGAAAGA		GTATAAAGTGAACcAC	TGG	TACTTTGACTAC (4)
(3-7) GCGAGAGA	G	ATAAAGTGAAC	CCC	CTTTGACTAC (4)
(4-59) GCGAG	GGGA	TATAAAGTGAAC	TTTCTTTT	TTTGACTAC (4)
(4-39) GCGAGA	GG	TAAAGTGAAC	CTCTGGG	CTTTGACTAC (4)
	(D _H 3-10)	GTATTACTATGGTTCGGGAGTTATTATAAC		
(3-30) GCGA	AAAGGC	TACTATGGTTCGGGAG	CTC	TTGACTAC (4)
(1-2) GCGAGAGA		TATTACTATGGTTCGGGAGTTATTATAAC	GAAGGT	CTACGGTATGGACGTC (6)
	(D _H 6-6)	GAGTATAGCAGCTCGTCC		
(1-2) GCGAGAGA		GTATAGCAG		CTTTGACTAC (4)
(3-48) GCGAGA	GA	GAGTATAGCAGCTCGT	TG	TGACTAC (4)
(3-13) GCAAGAGA	GG	ATAGgAGCTCGcCC	CTCGGG	TACTTTGACTAC (4)
	(D _H 7-27)	CTAACTGGGGA		
(3-7) GCGAGAGA	TCT	TGGGGA	AGG	CTAC (4)
(3-15) ACCAC	CCA	TAACTGGGGA	GGG	TTTGACTAC (4)
(3-48) GCGAGA	GATA	GGGGA		CCg (5)

FIG. 7A

3'Vκ		N		5' Jκ
(1-6)	CAACAGAGTTATAGTACCCCTCC	GGA		GACG(1)
(1-9)	CAACAGCTTAATAGTTACCCCTC			GGACG(1)
(1-9)	CAACAGCTTAATAGTTACC			ATTCACCT(3)
(1-9)	CAACATtTTAATAGTTACCC			GCTCACT(4)
(3-15)	CAGCAGTATAATAACTGGCCTC			TCACT(4)
(1-17)	CTACAGCATATAATAGTTACCC			GTGGACG(1)
(1-17)	CTACAGCATATAATAGTTACCCCTC			GGACG(1)
(3-20)	CAGCAGTATGGTAGCTCACCTC			GGACG(1)
(2-30)	ATGCAAGGTACACACTGGCC			GTGGACG(1)
(2-30)	ATGCAAGGTtCACACTGGCC			GTACACT(2)
(2-30)	ATGCAAGGTACACACTGGCC			GCTCACT(4)
(1-33)	CAACAGTATGATAATCTCCCTCC			CACT(3)
(1-33)	CAACAGTATGATAATCTCCC			ATTCACCT(3)
(1-33)	CAACAGTATGATAATCTCCC	CG		TCACT(4)
(1-33)	CAACAGTATGATAATCTCCC			GATCACCT(5)
(1-37)	CAACGGAtTTACAATGCC	GA		CACC(5)
(1-39)	CAACAGAGTTACAGTACCCCTC	CA		TGTACACT(2)
(1-39)	CAACAGAGTTACAGTACCCCTC			TCACT(4)
(1-39)	CAACAGAGTTACAGTACTCCCTCC			CACT(4)

FIG. 7B

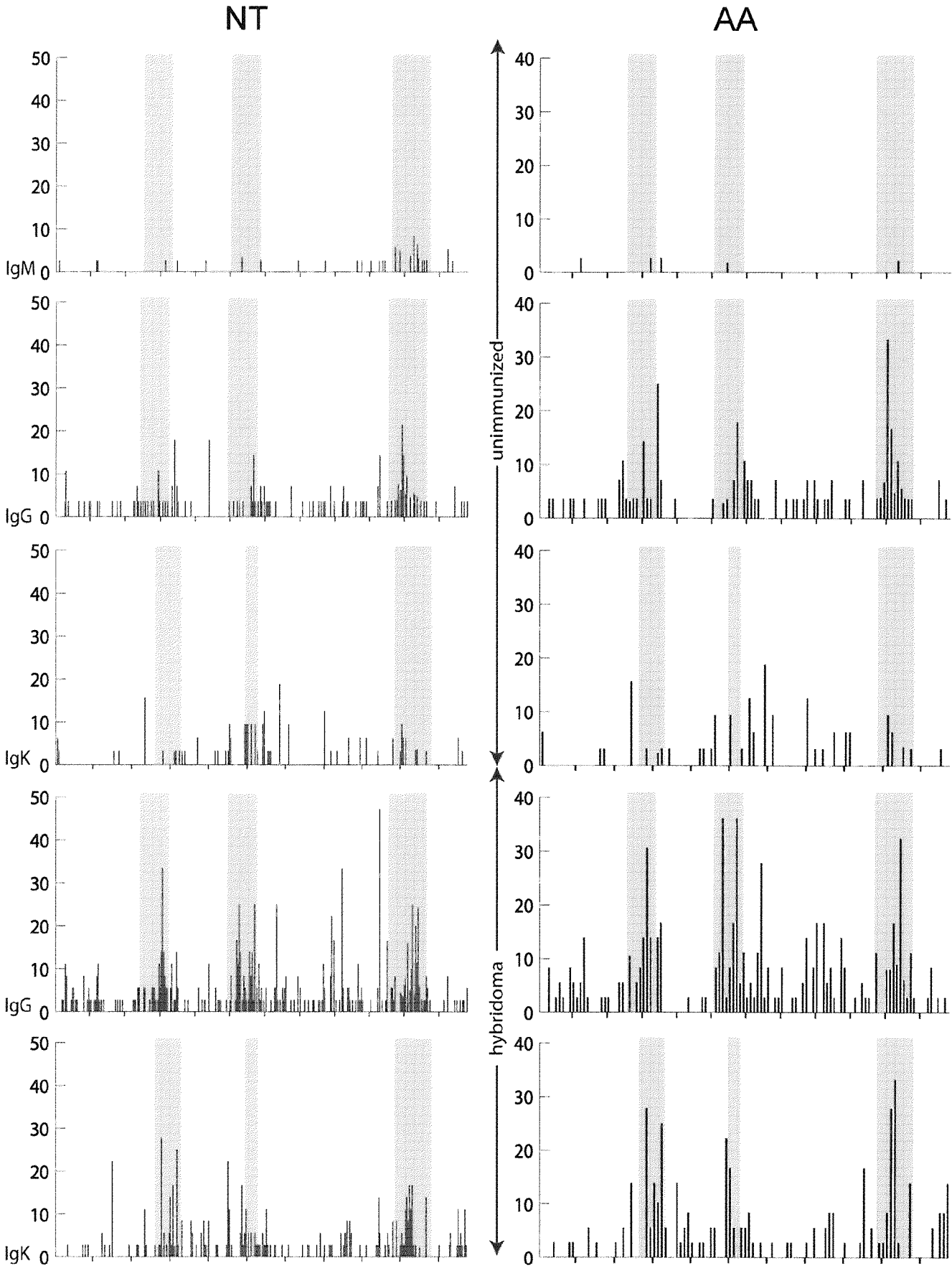


FIG. 8

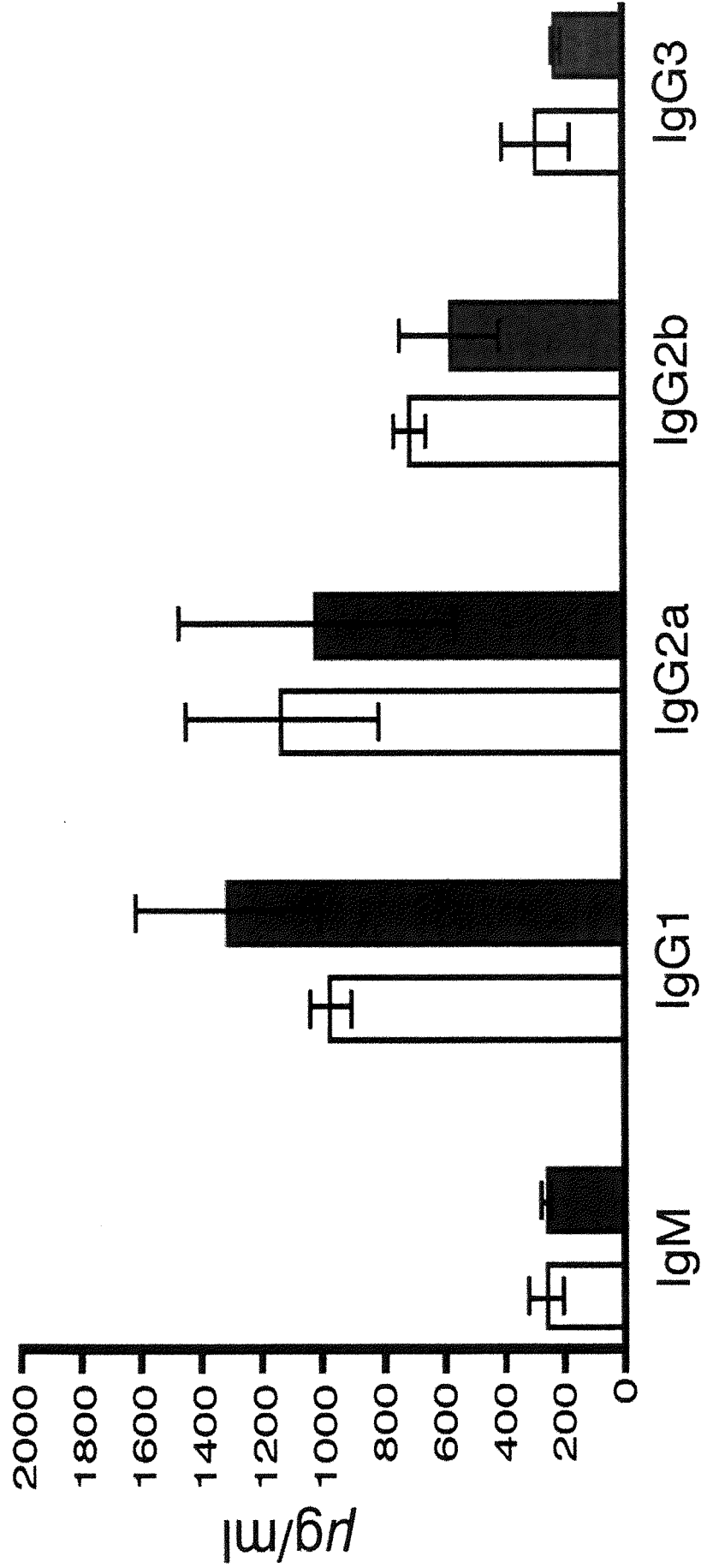


FIG. 9A

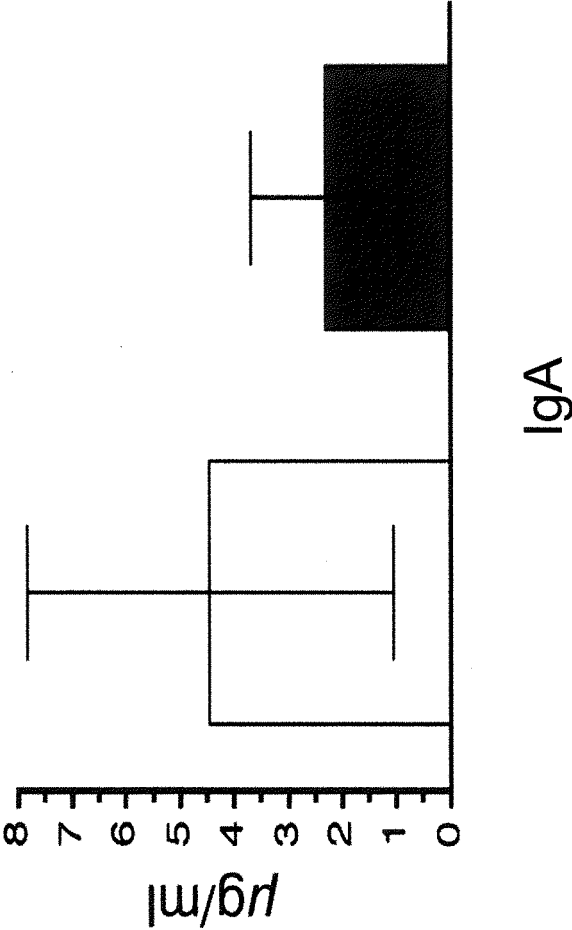


FIG. 9B



FIG. 9C

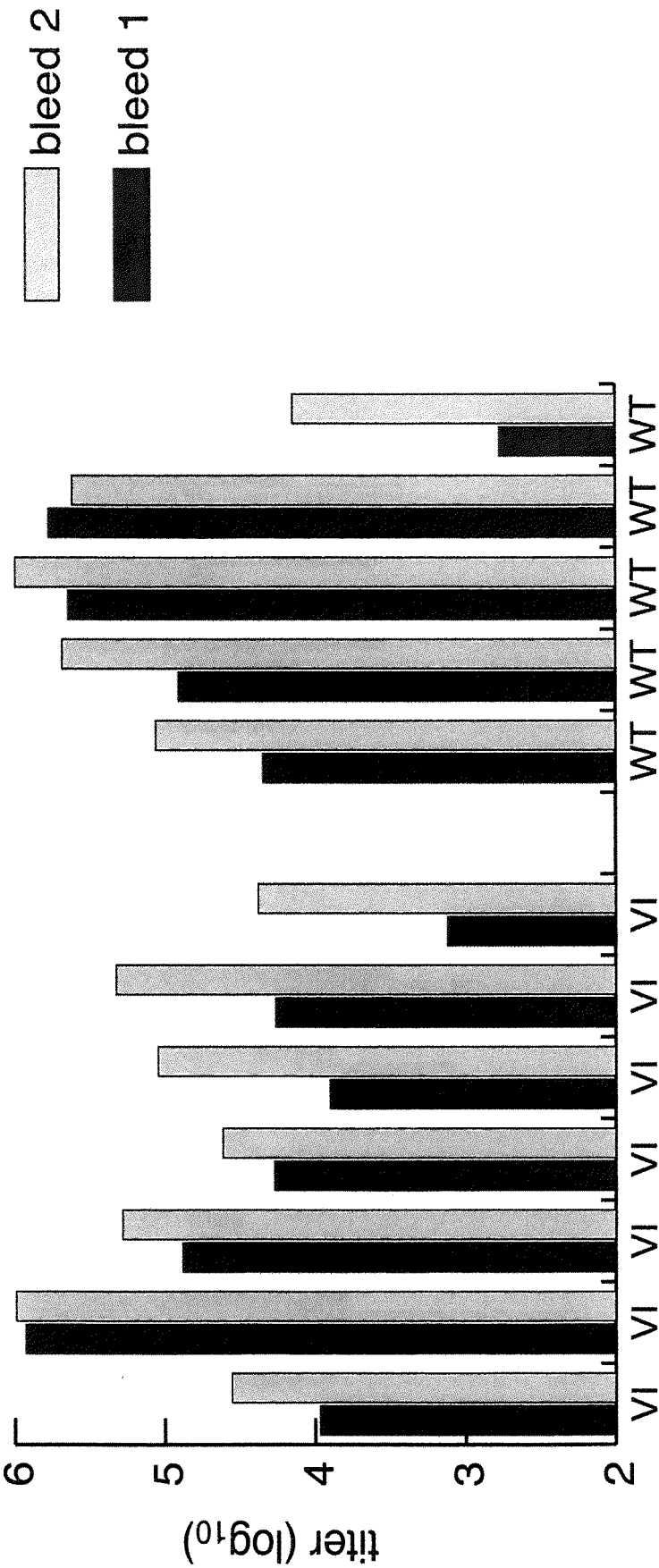


FIG. 10A

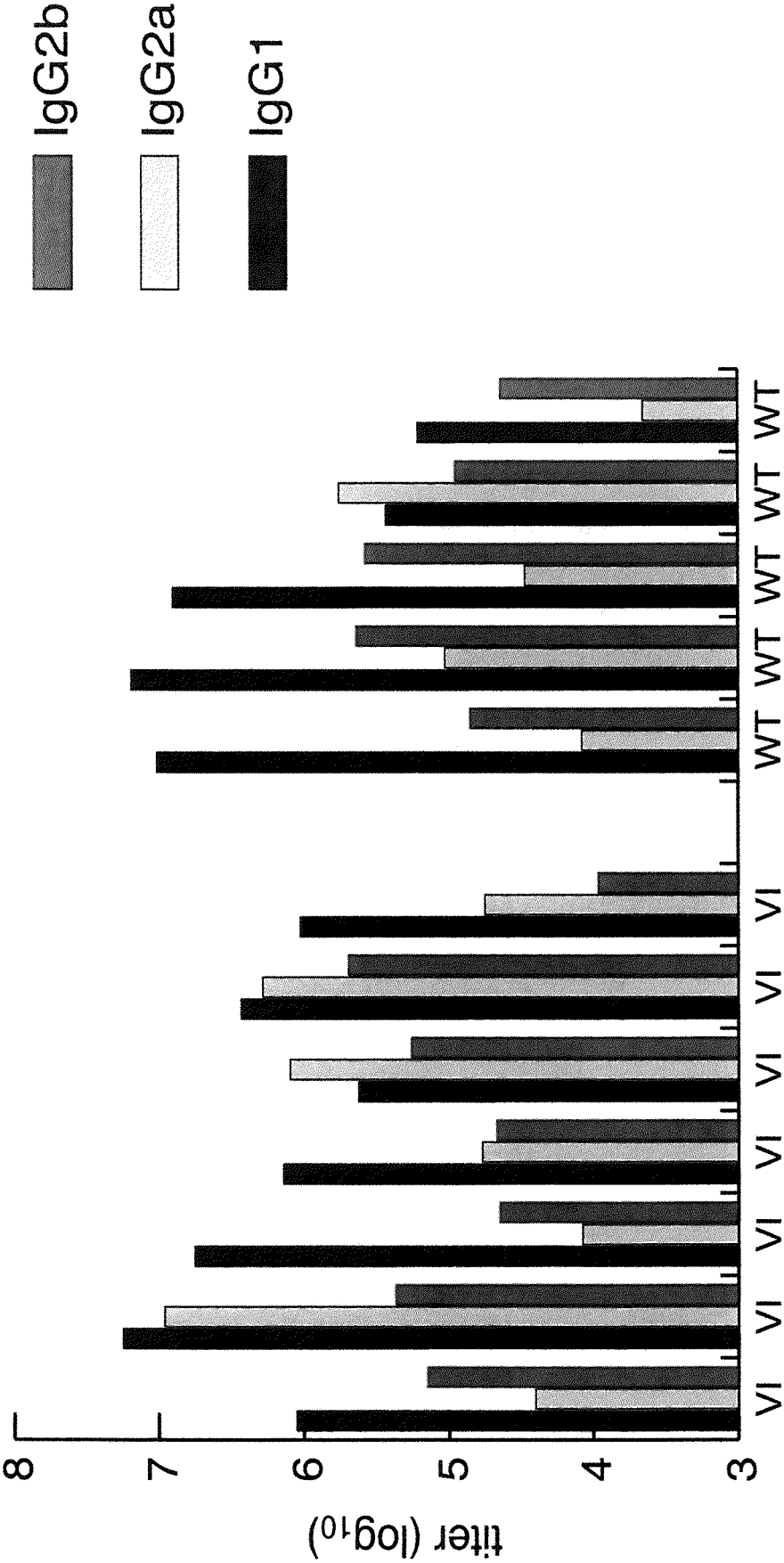


FIG. 10B

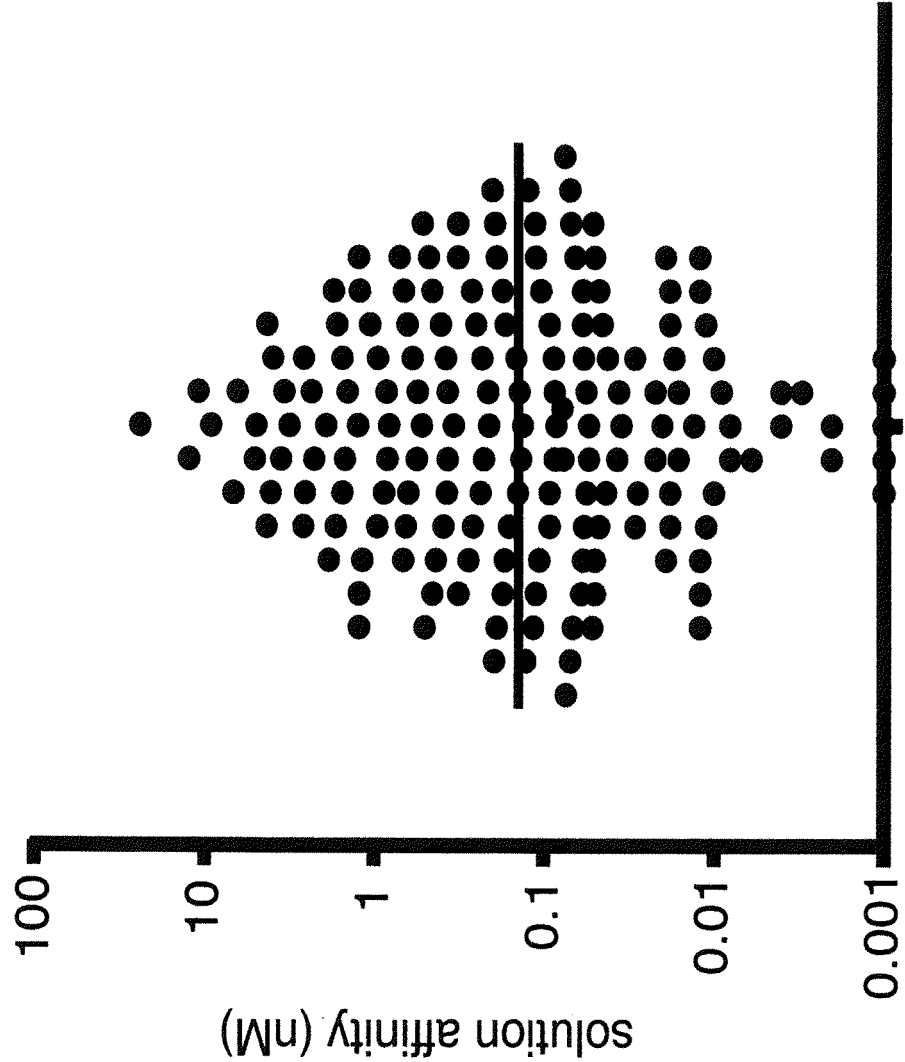


FIG. 11A

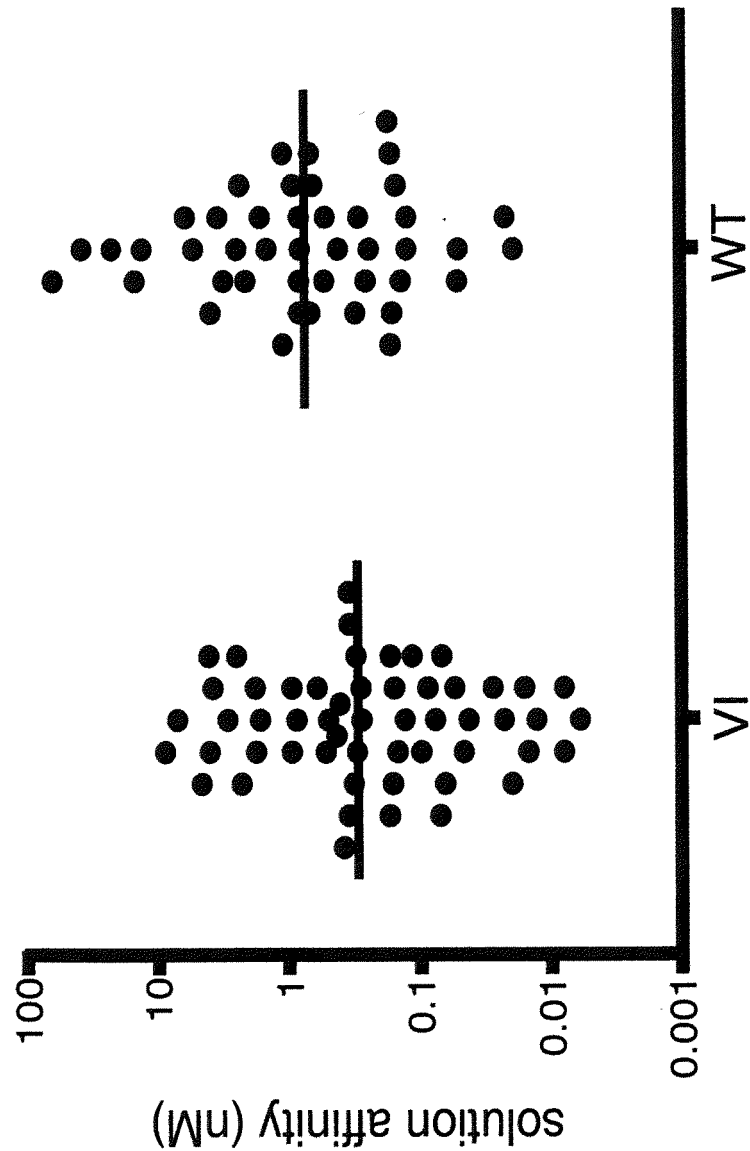


FIG. 11B

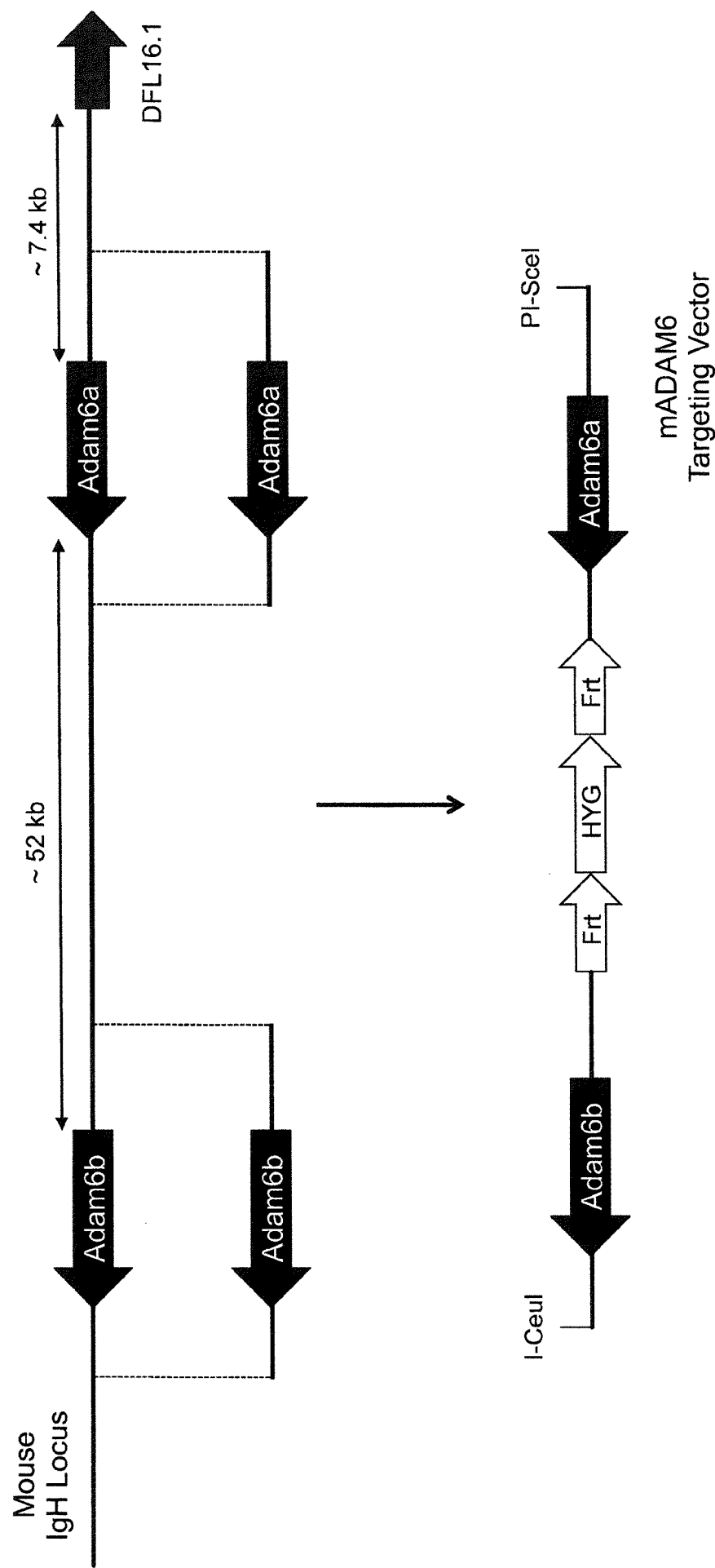


FIG. 12

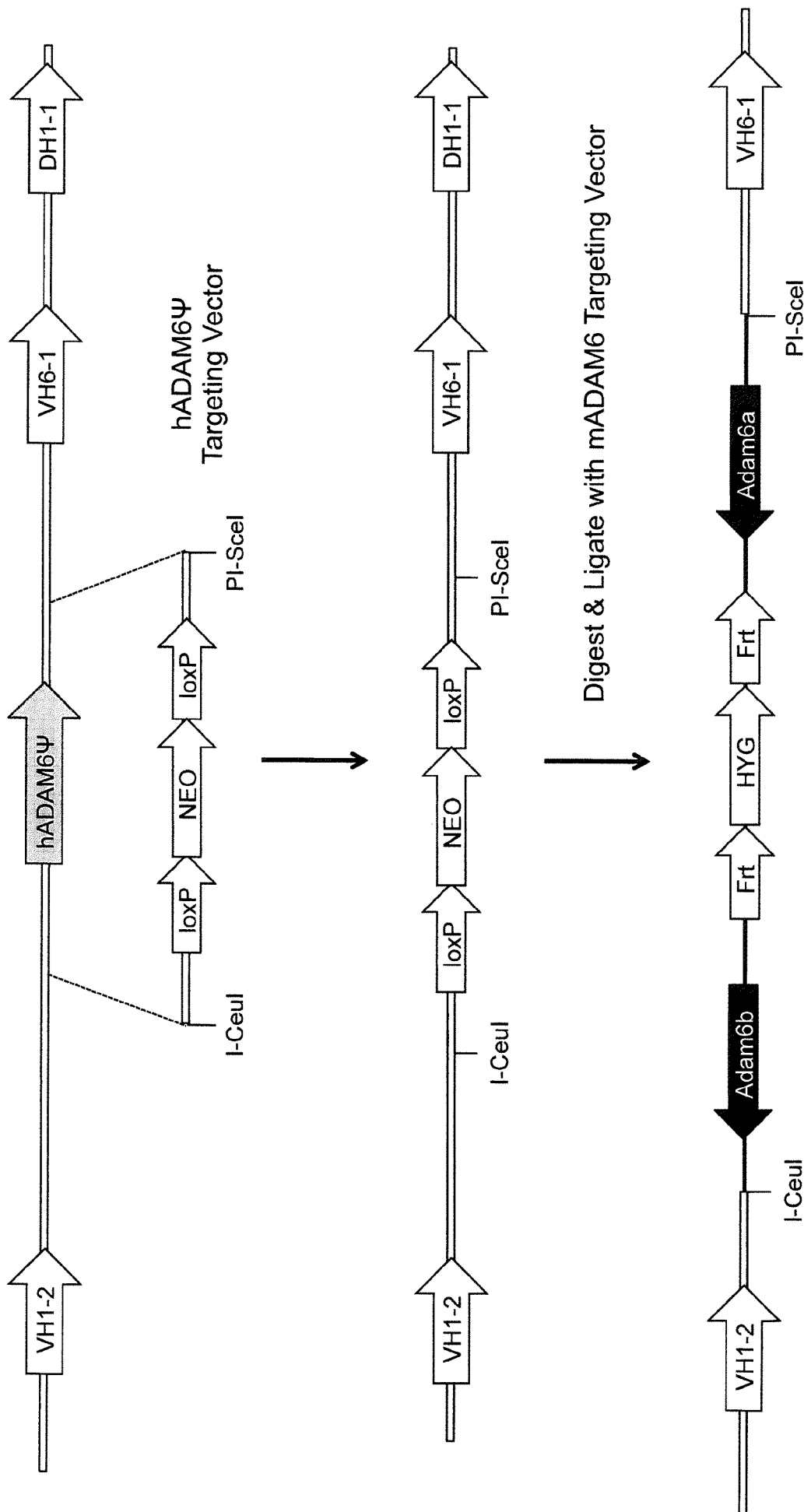


FIG. 13

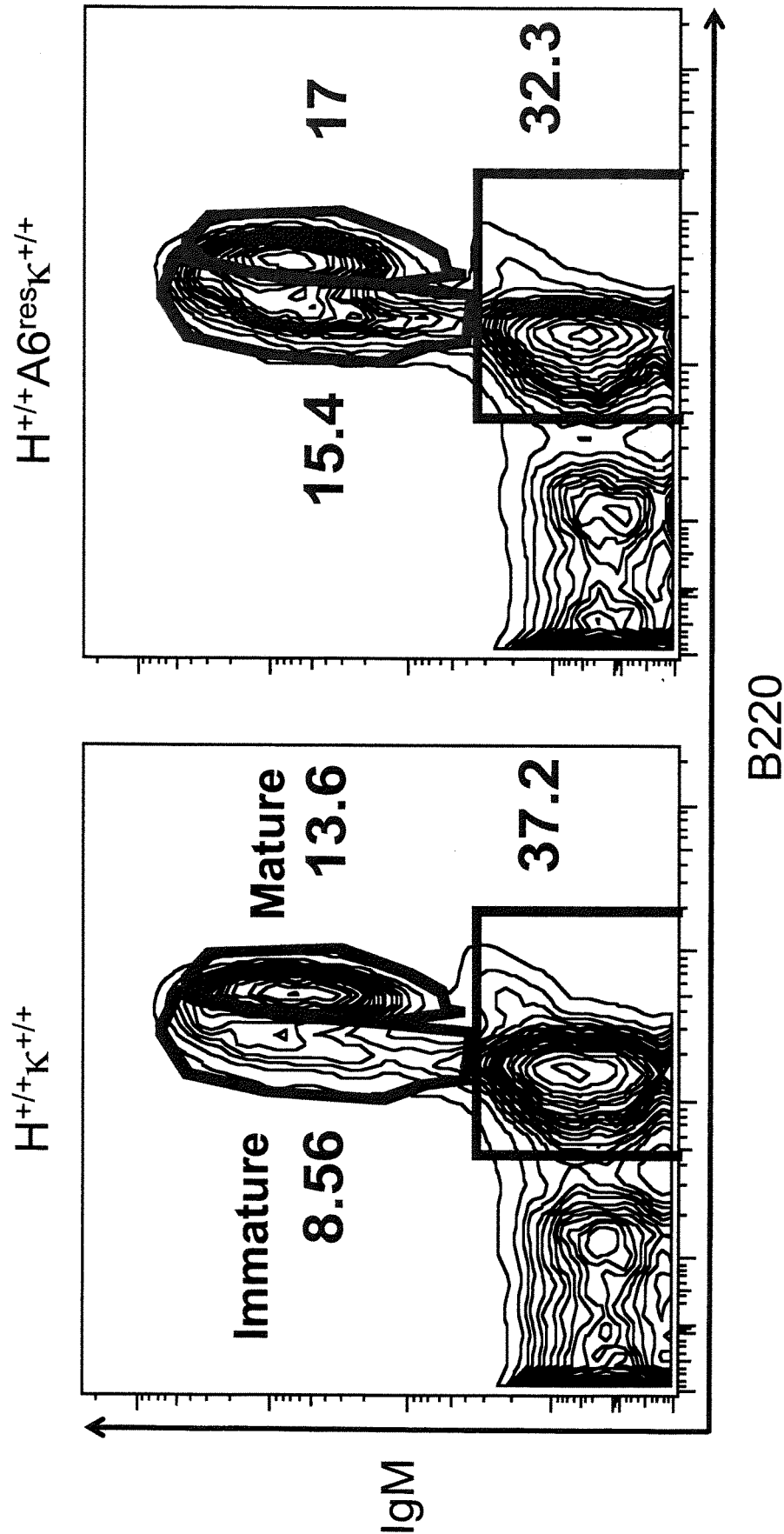


FIG. 14A

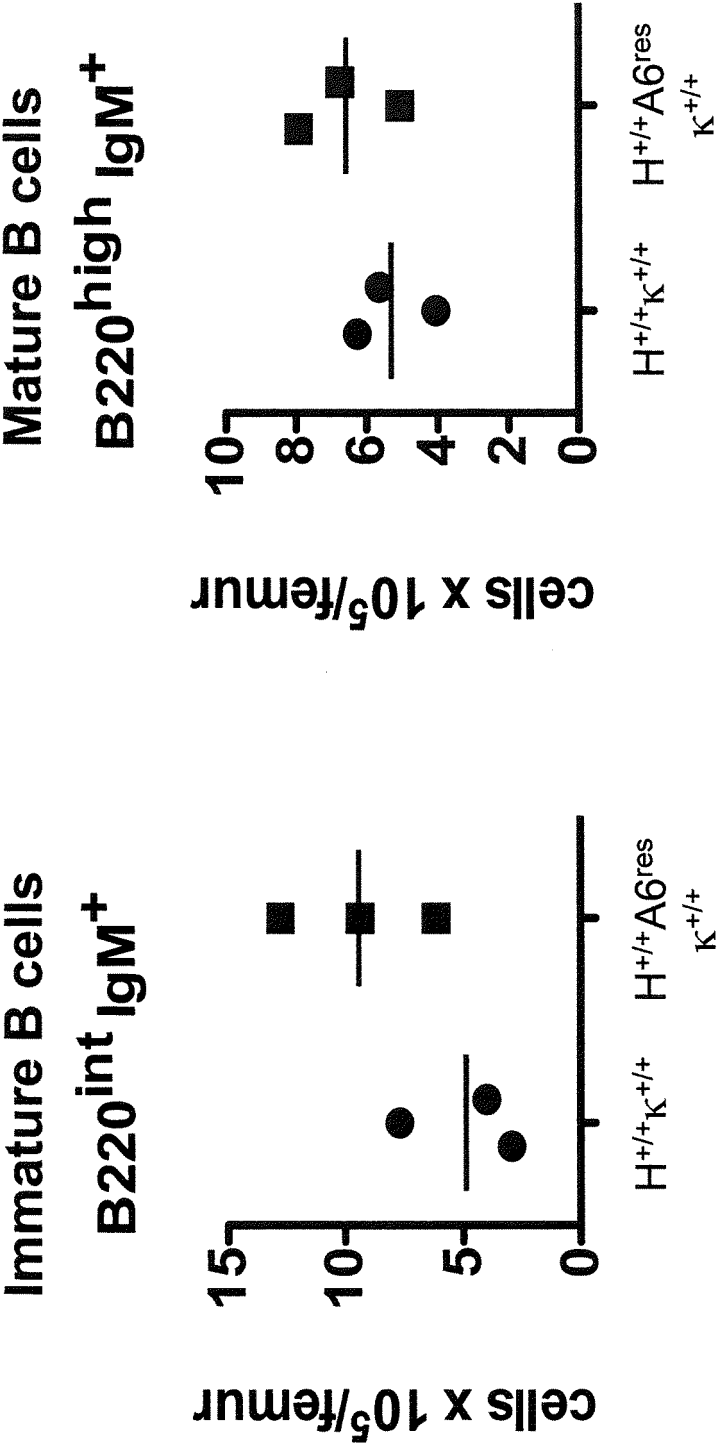


FIG. 14B

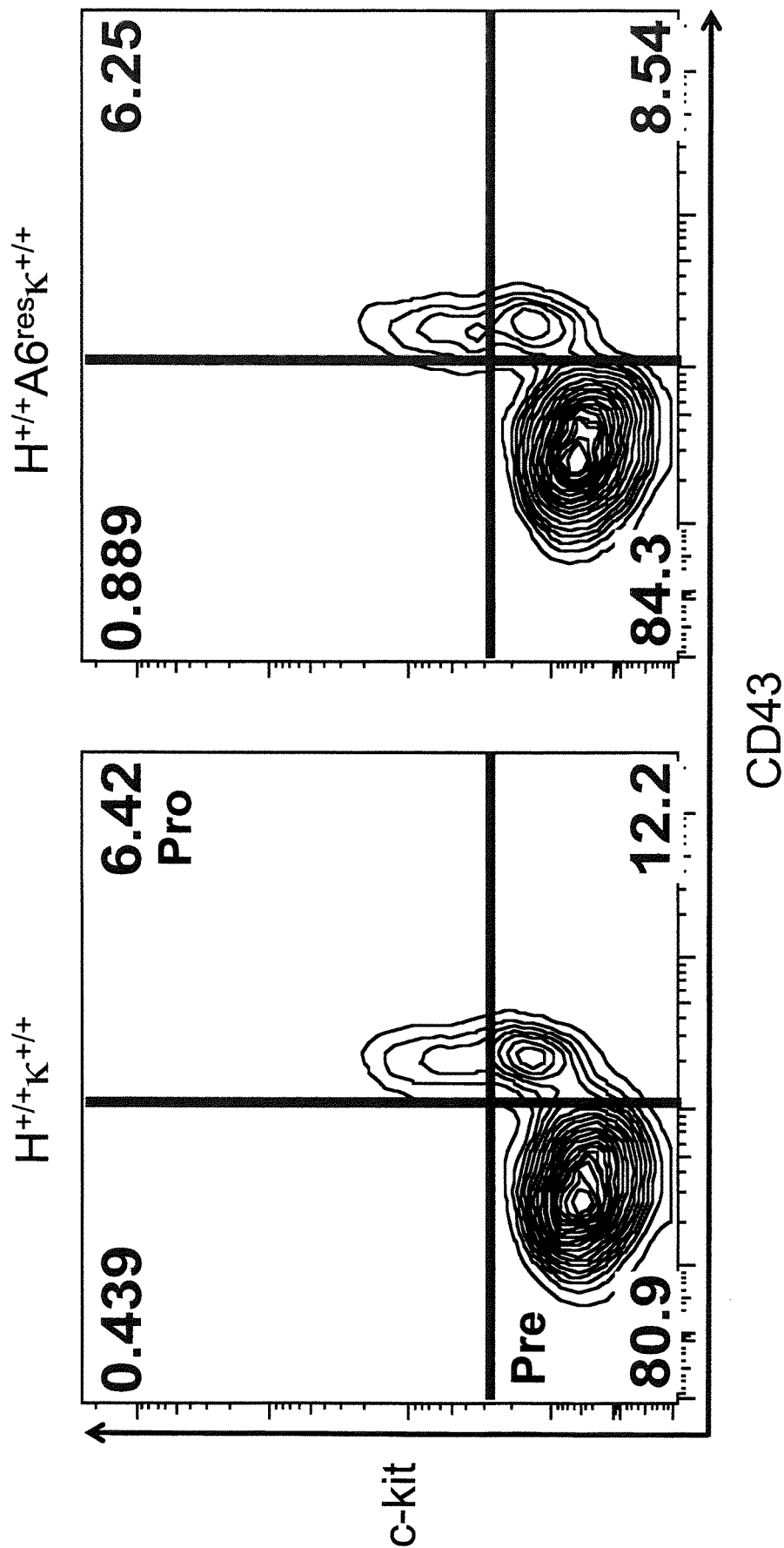


FIG. 15A

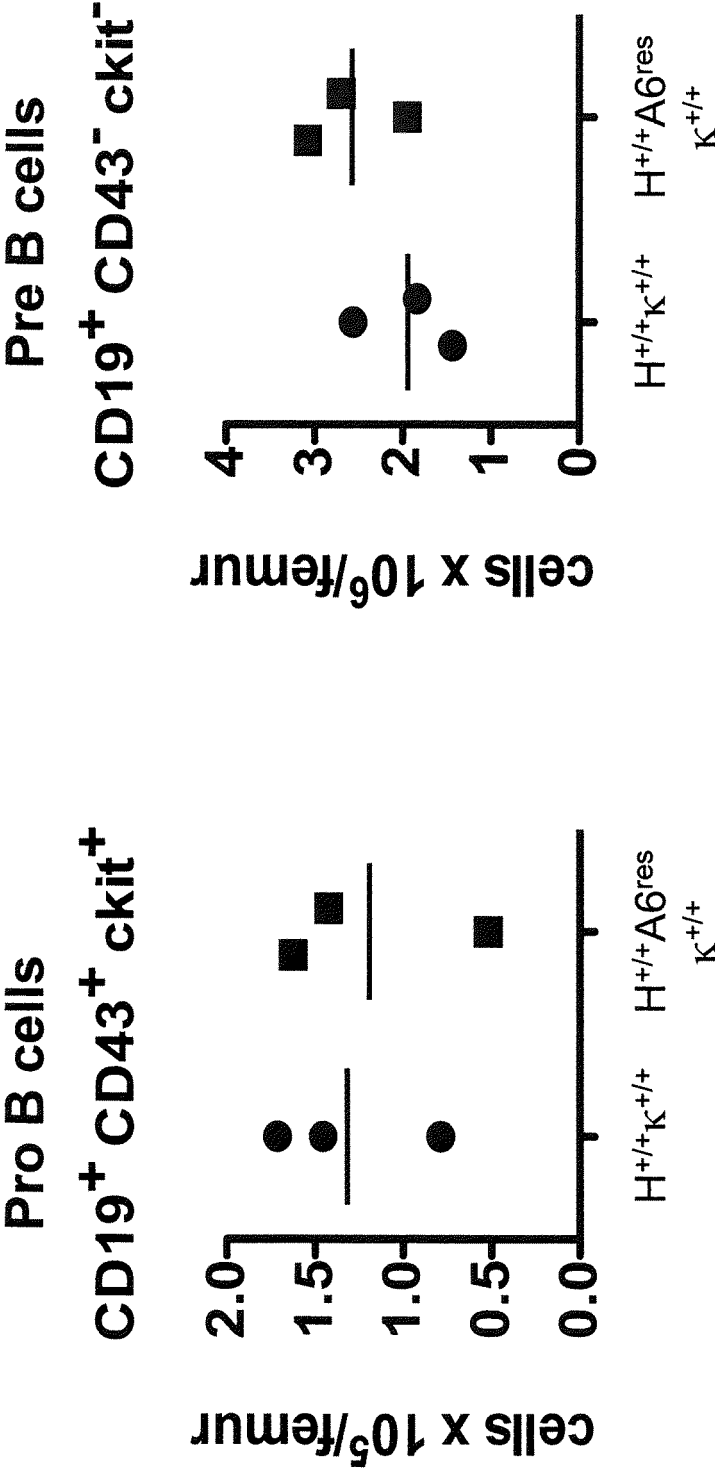


FIG. 15B

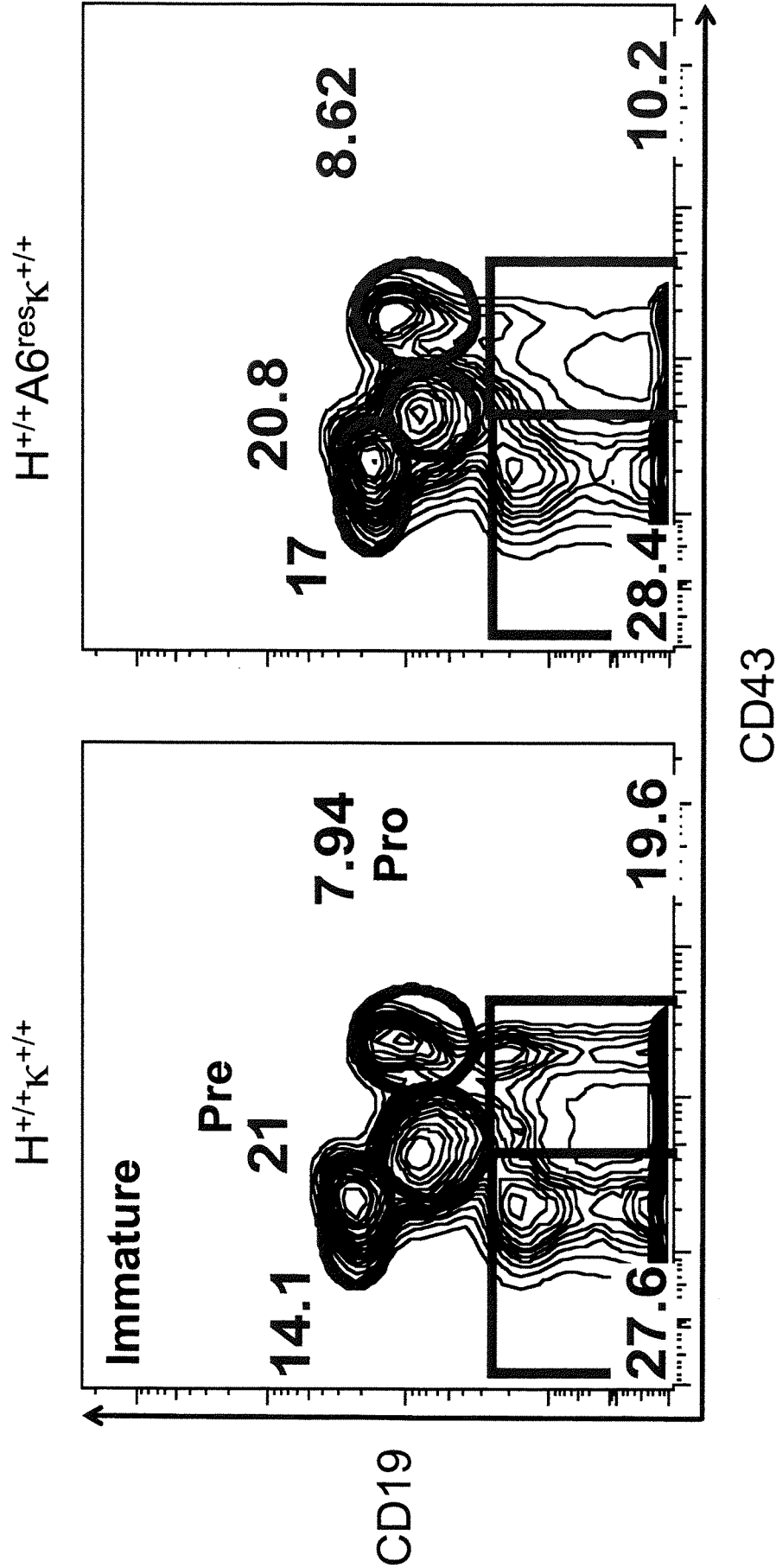


FIG. 16A

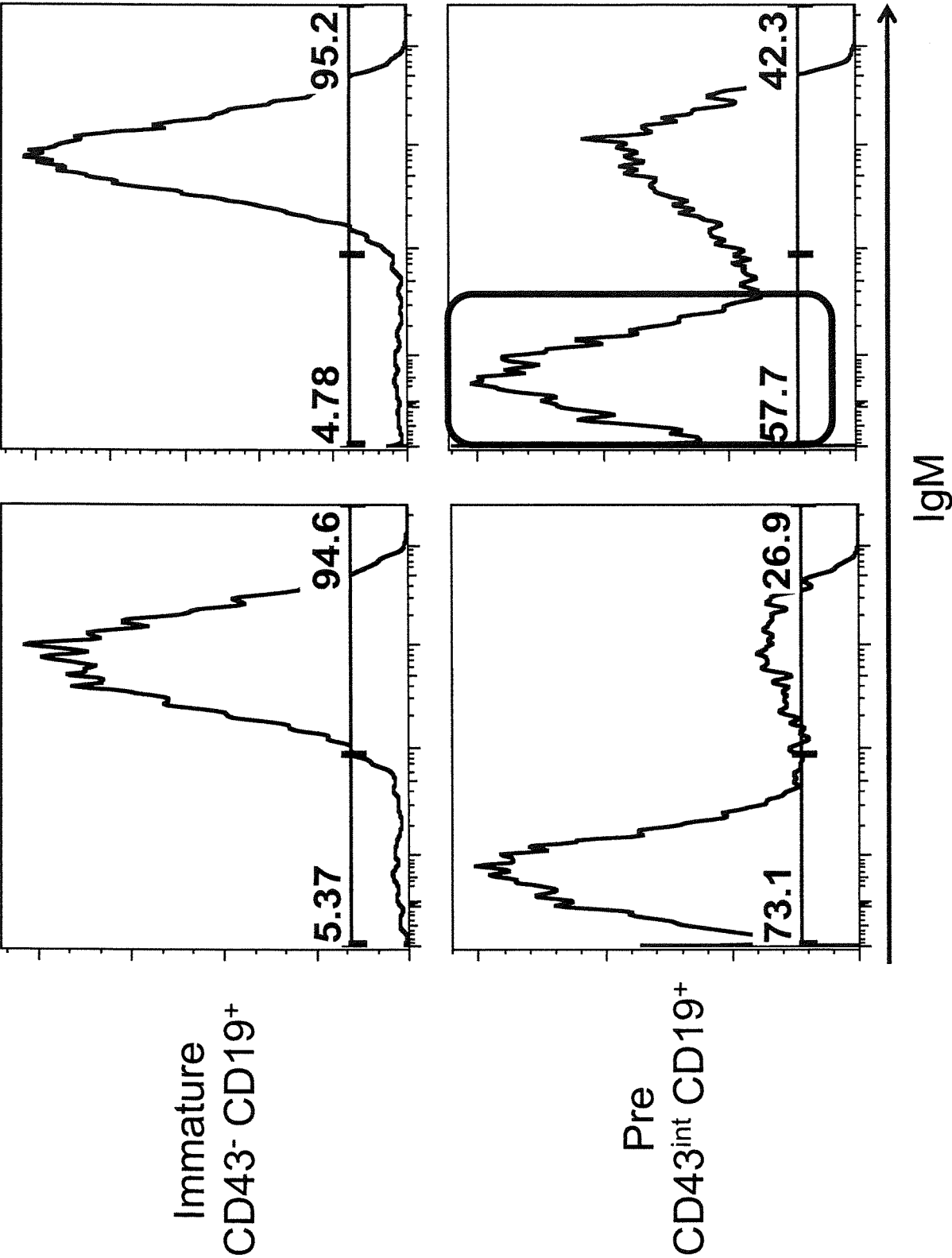


FIG. 16B

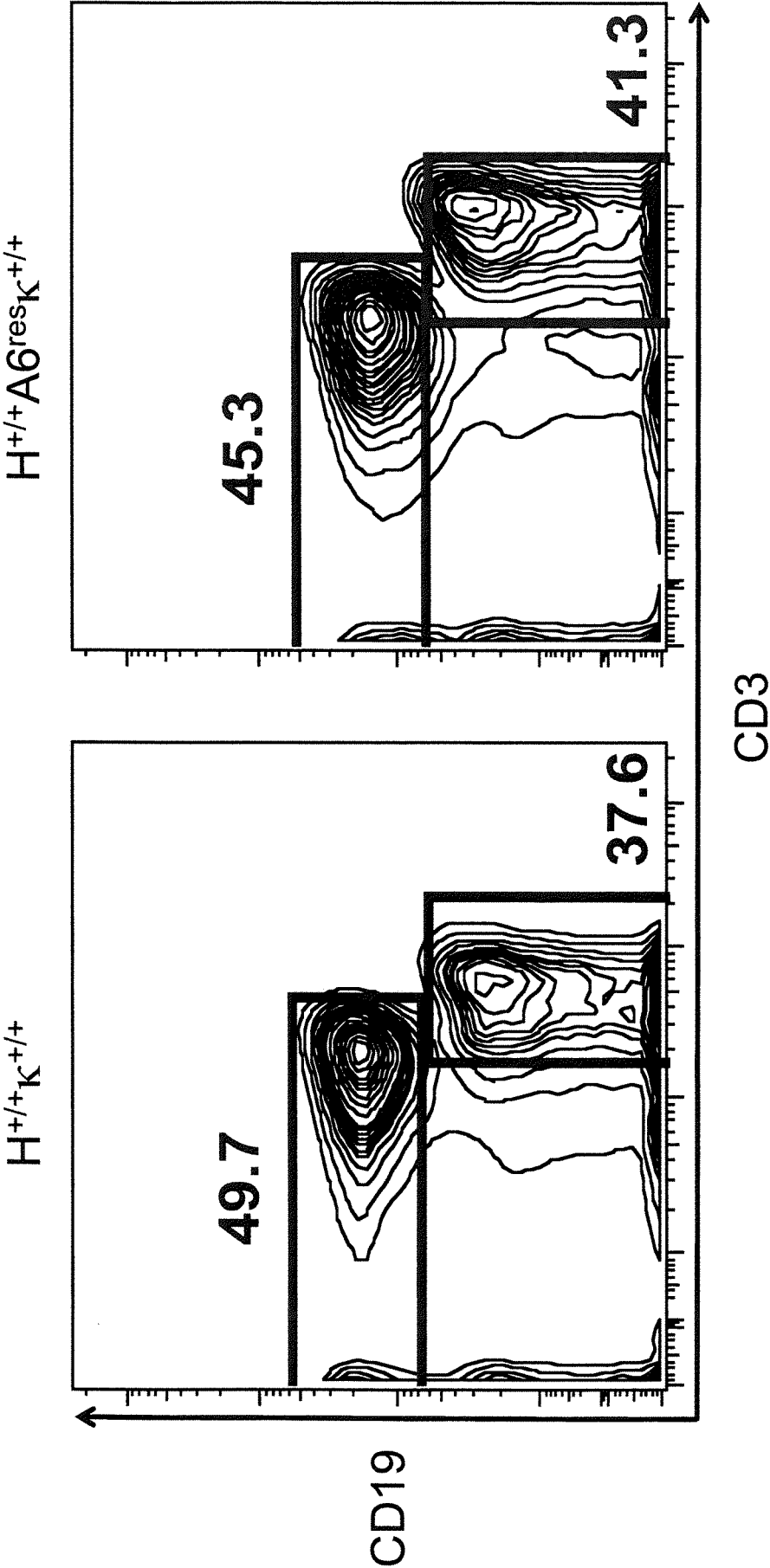


FIG. 17A

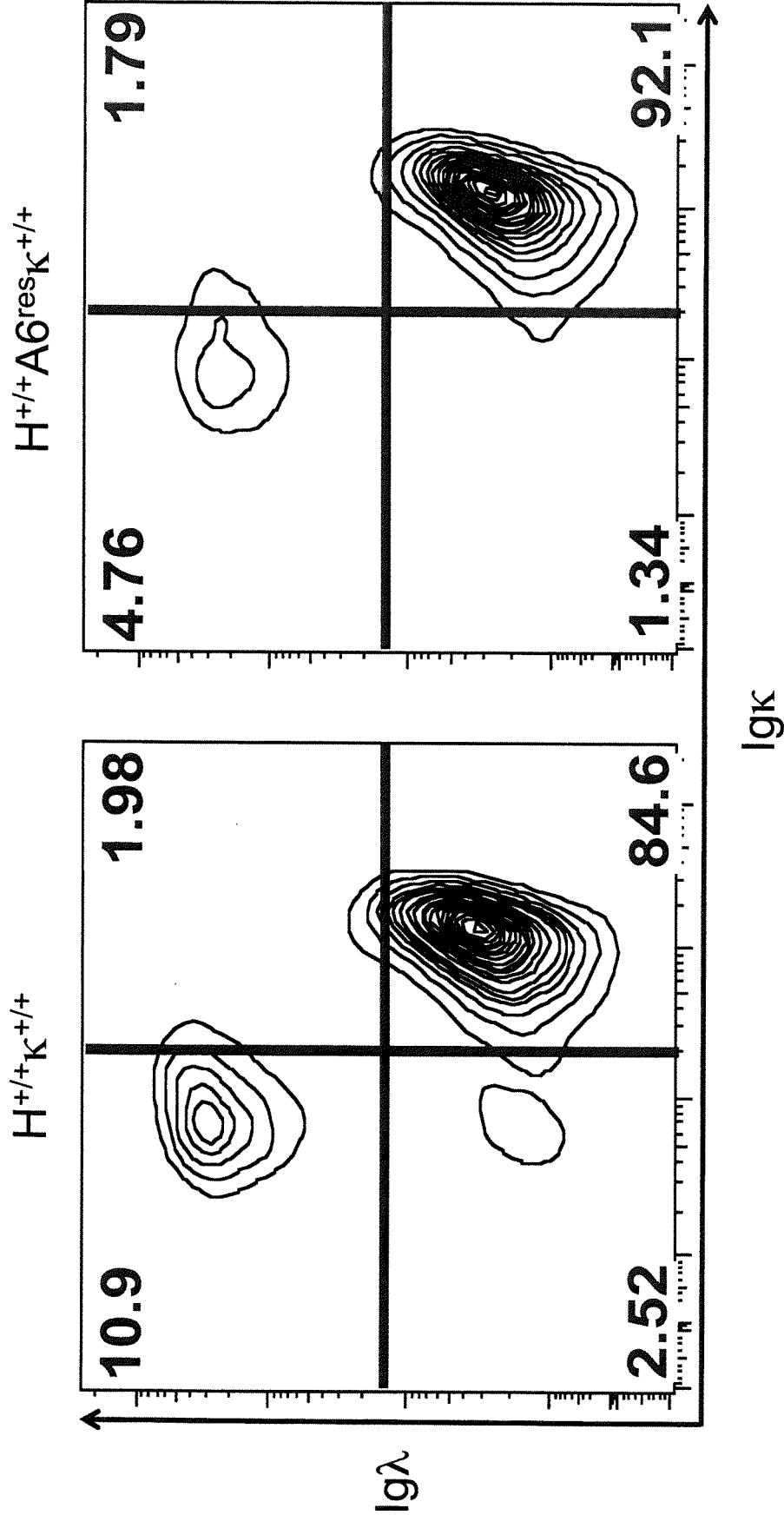


FIG. 17B

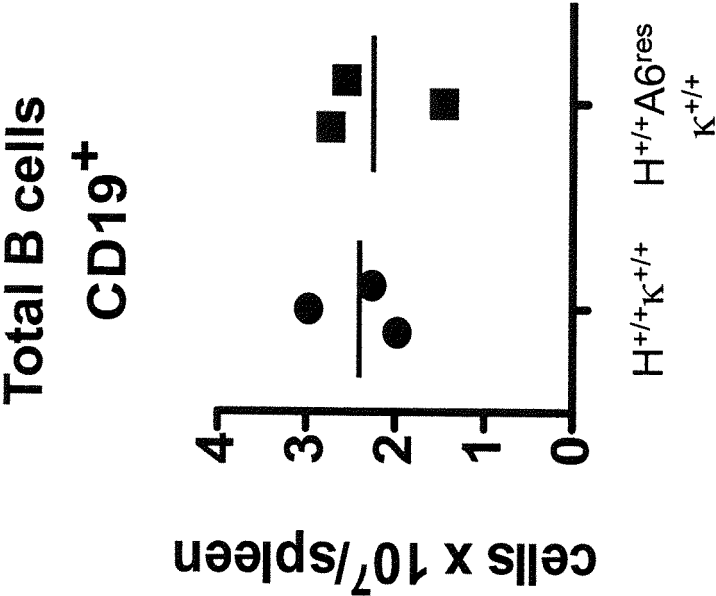


FIG. 17C

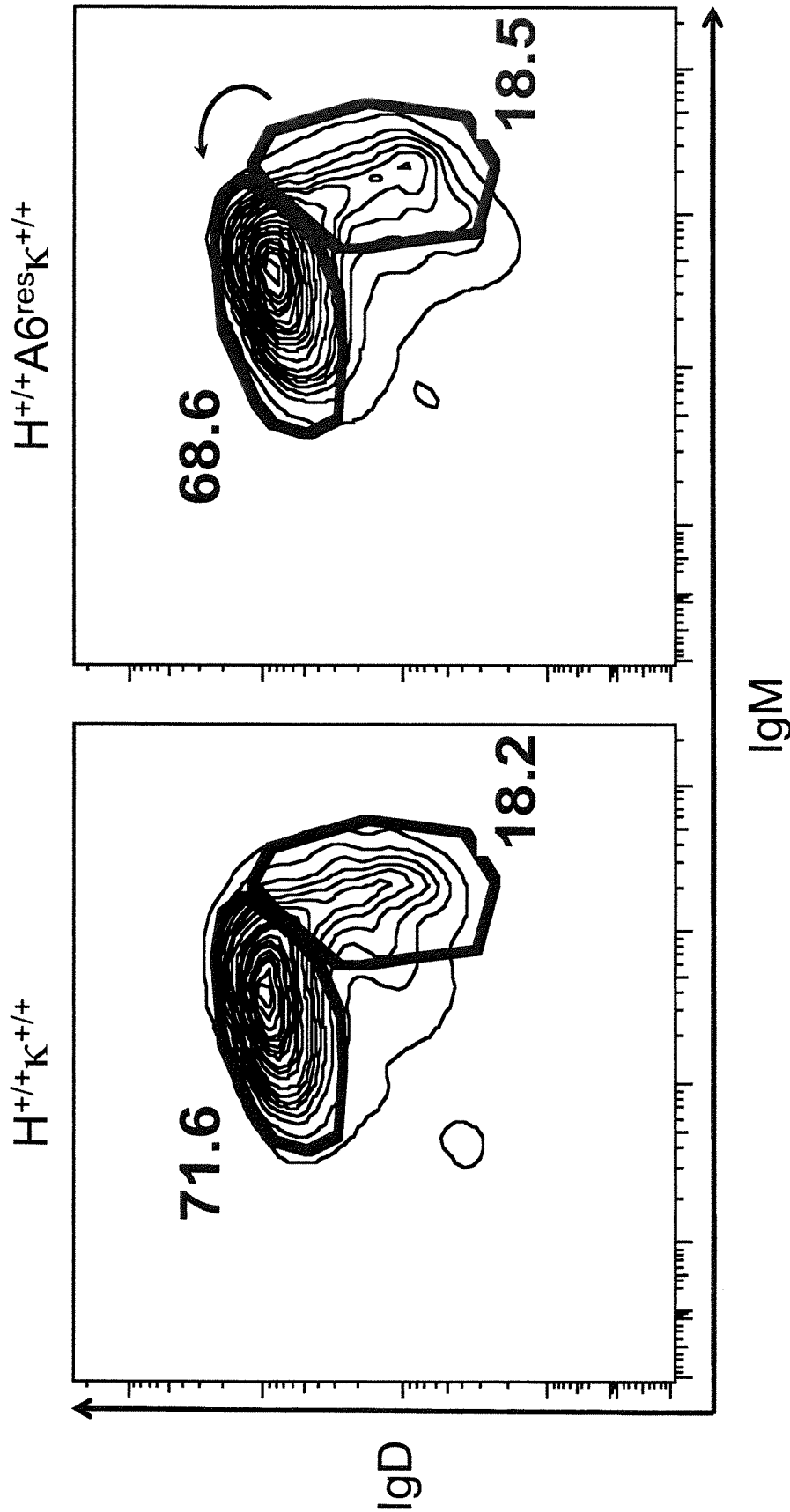


FIG. 18A

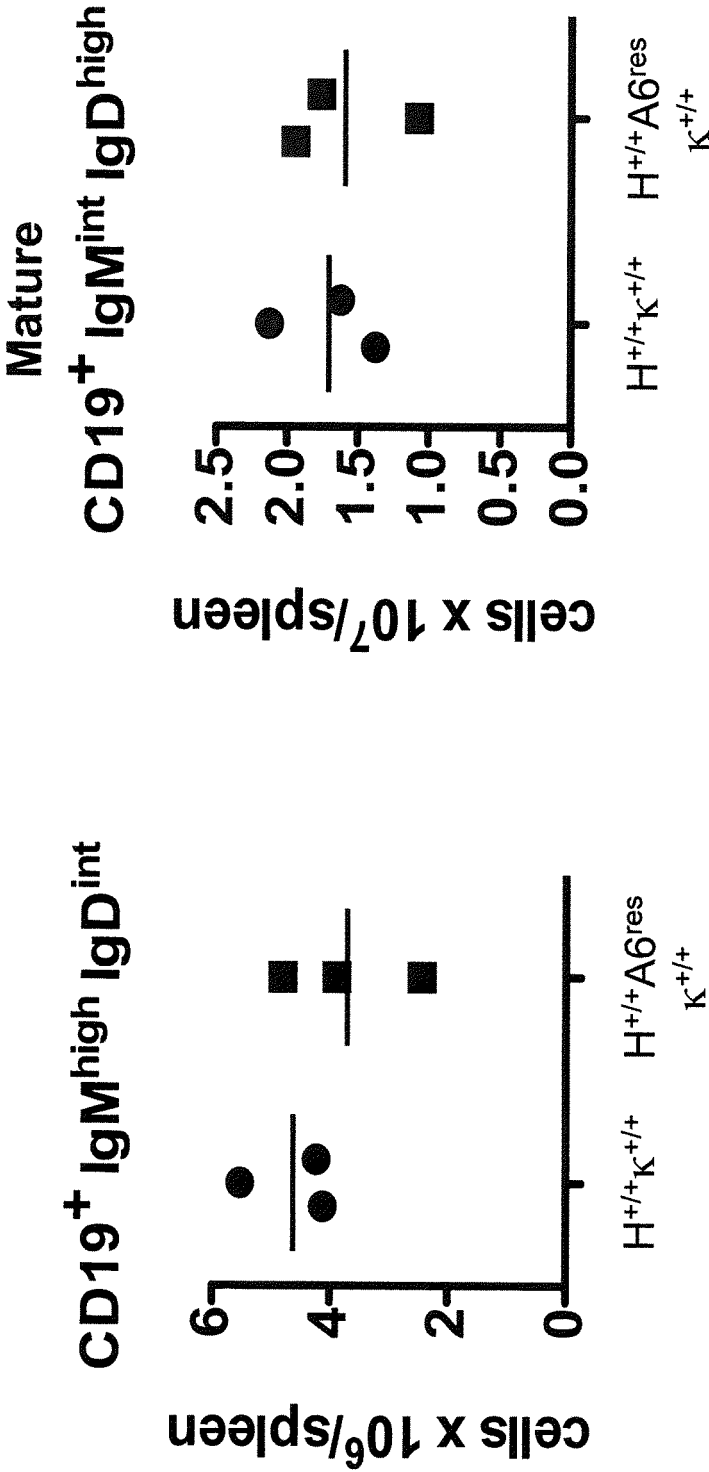


FIG. 18B

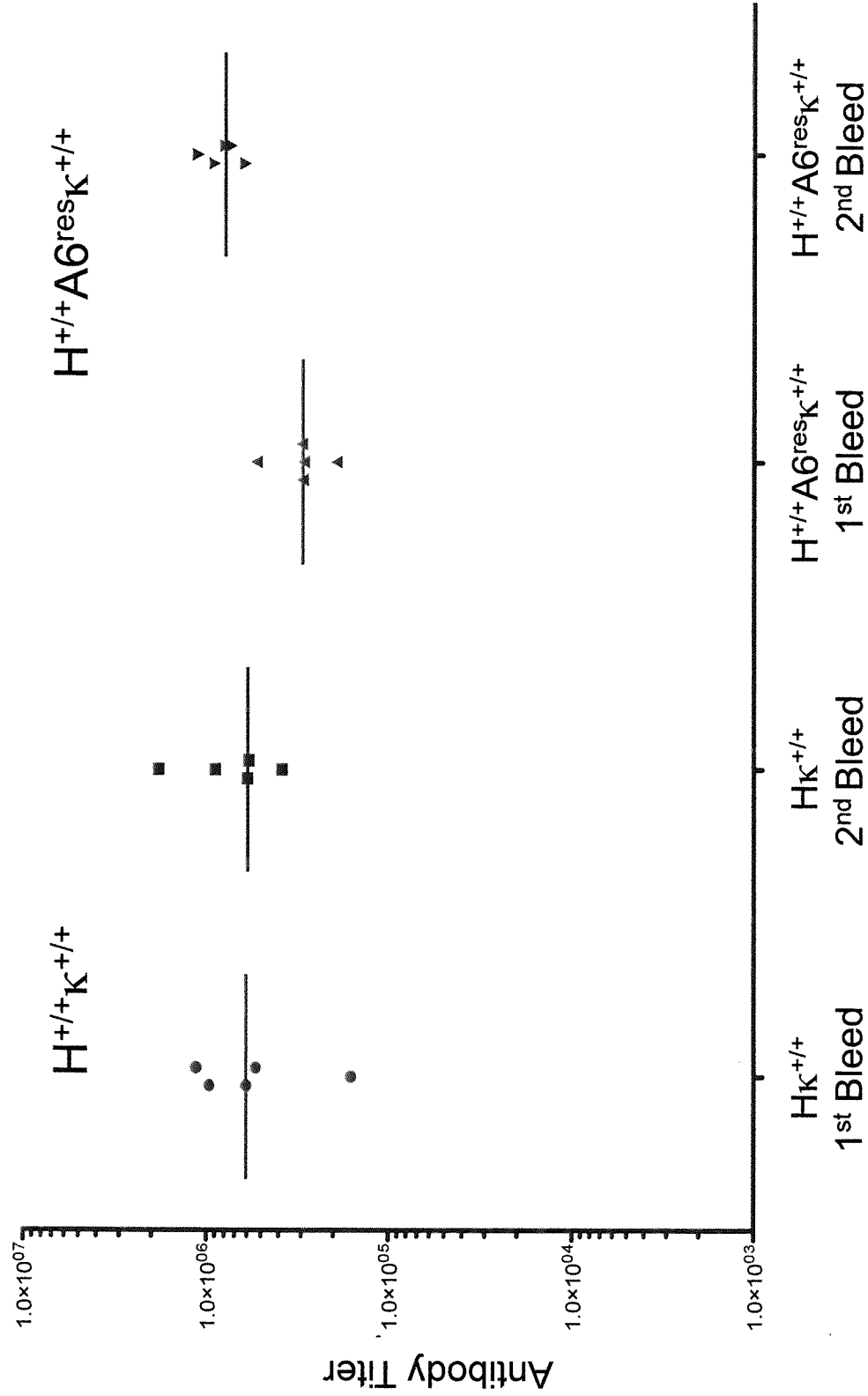


FIG. 19

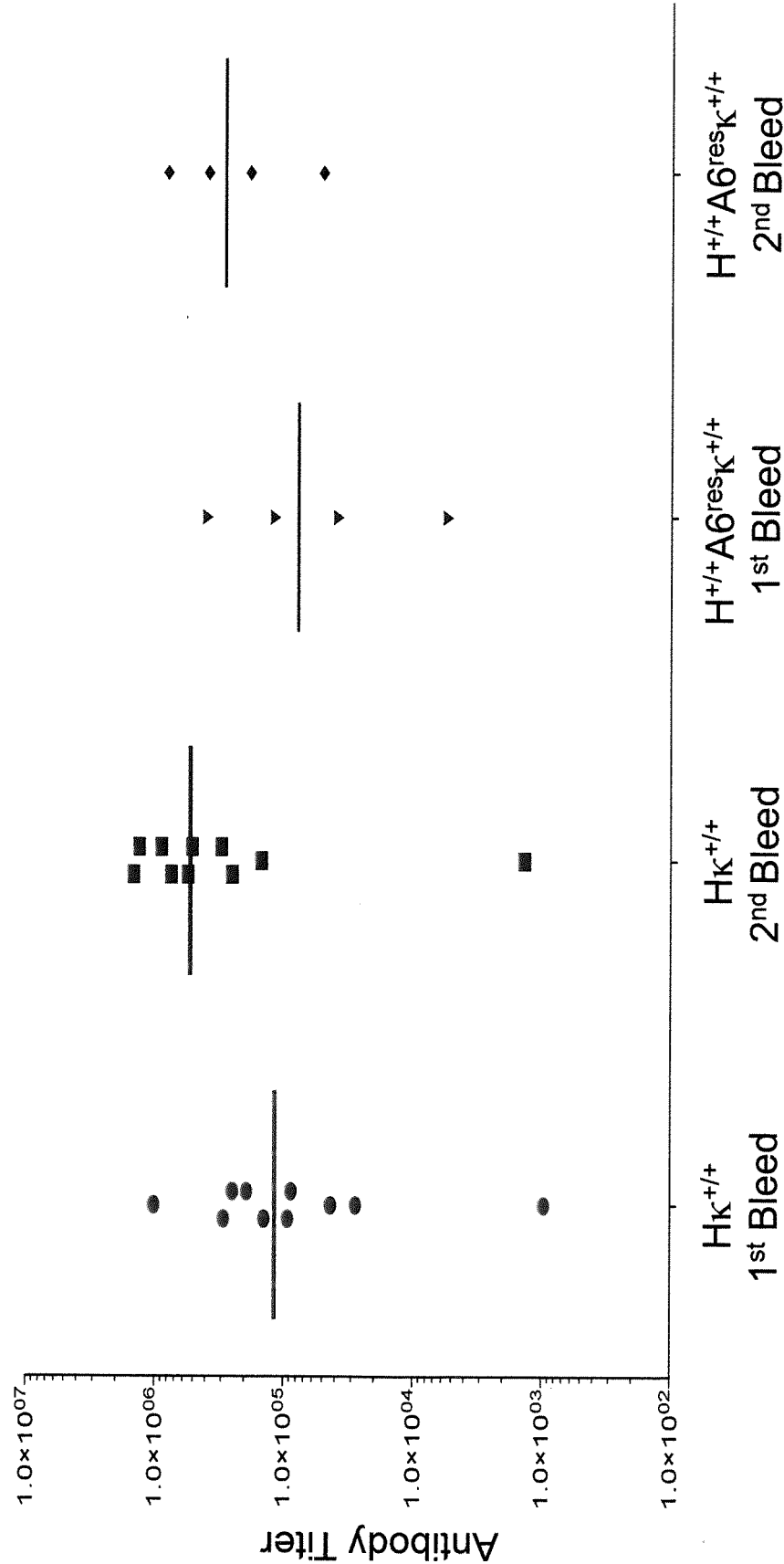


FIG. 20

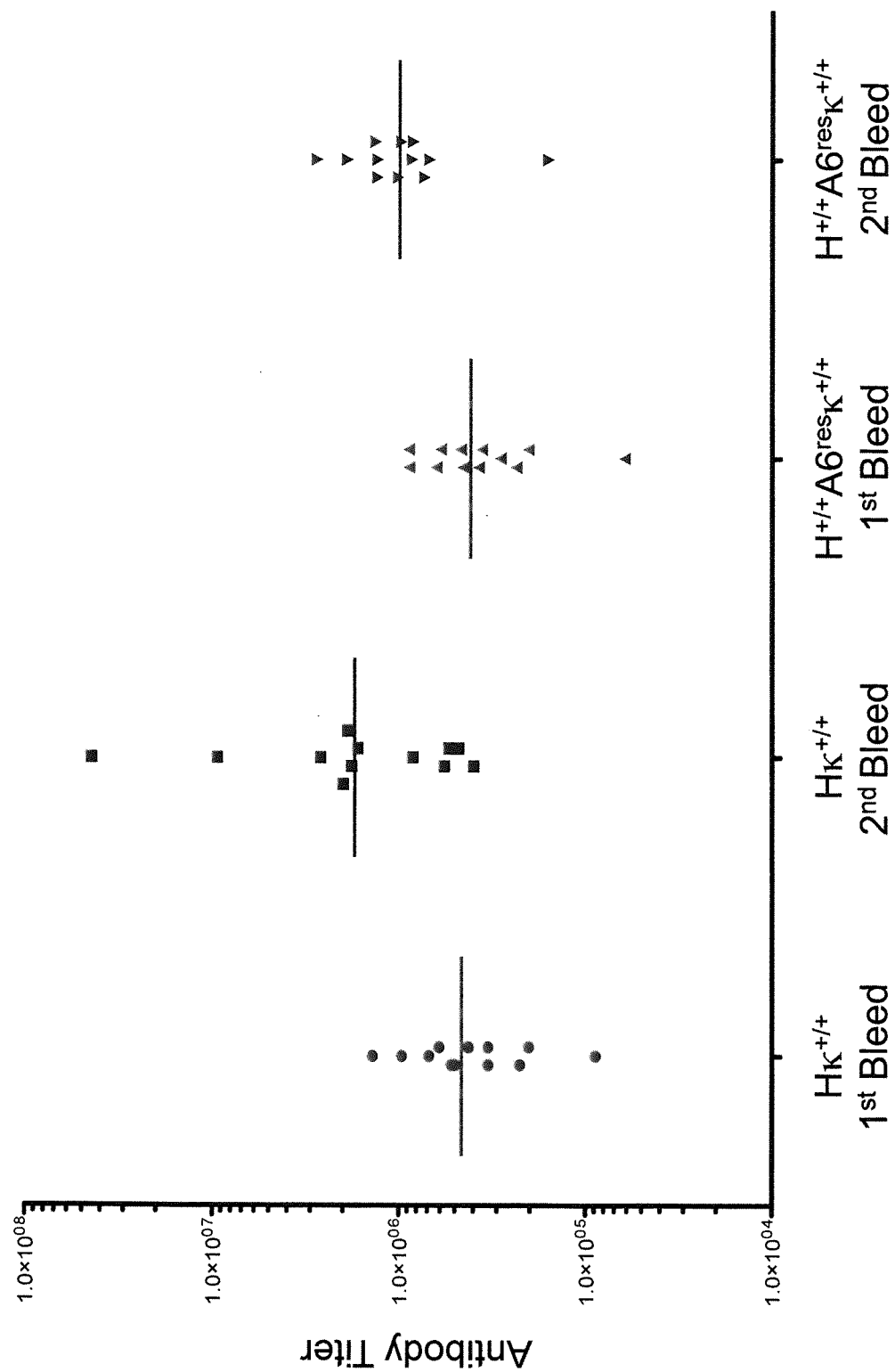


FIG. 21

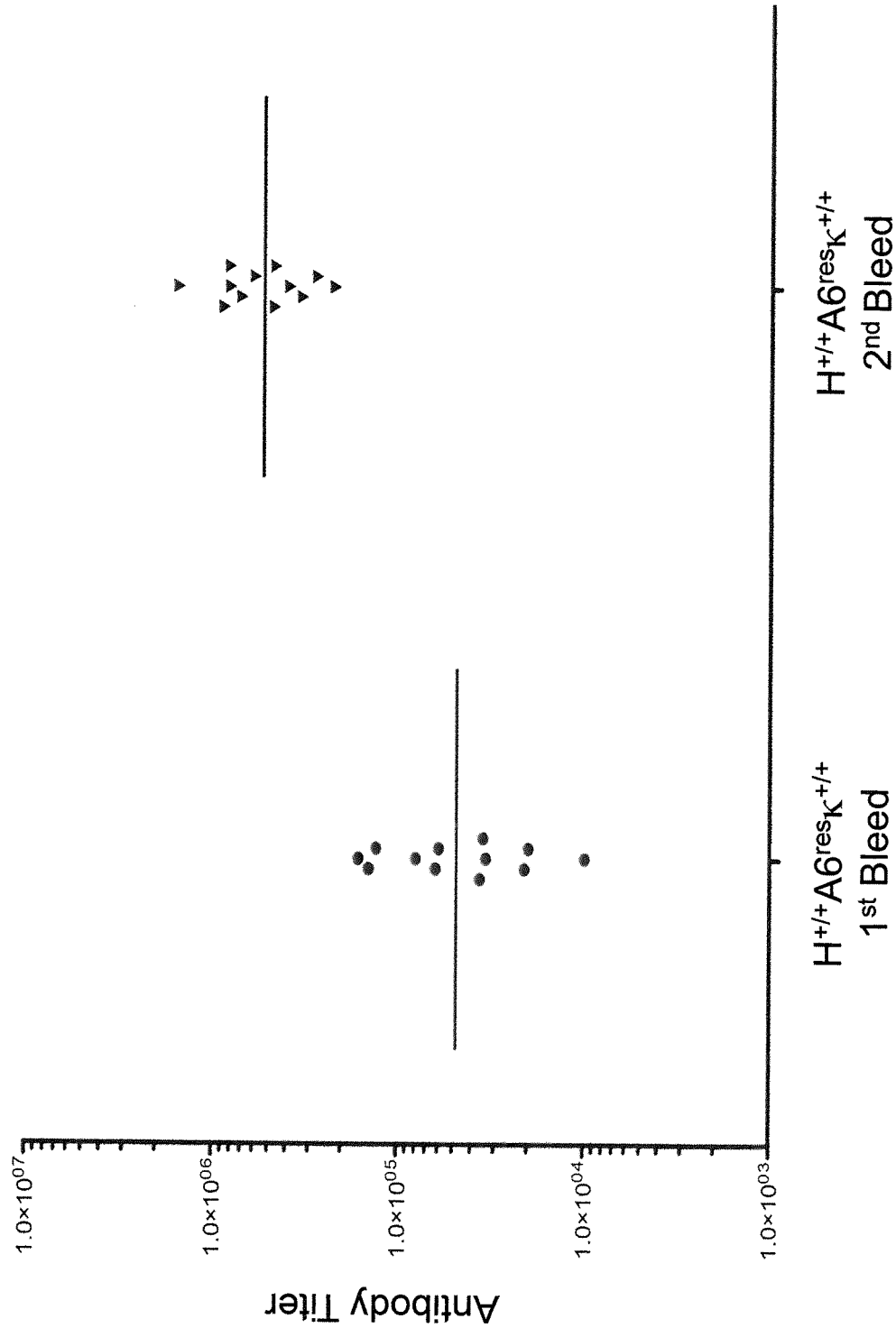


FIG. 22