

FIG. 1A

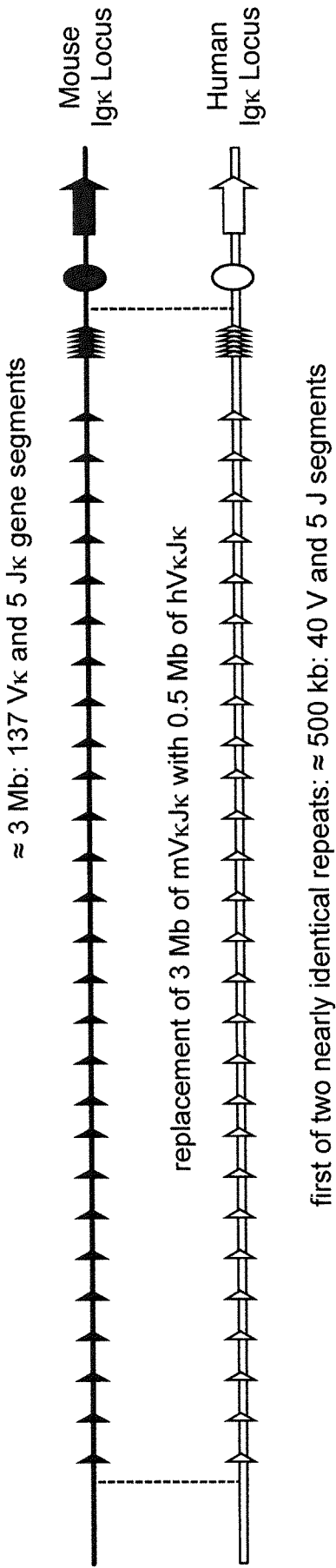


FIG. 1B

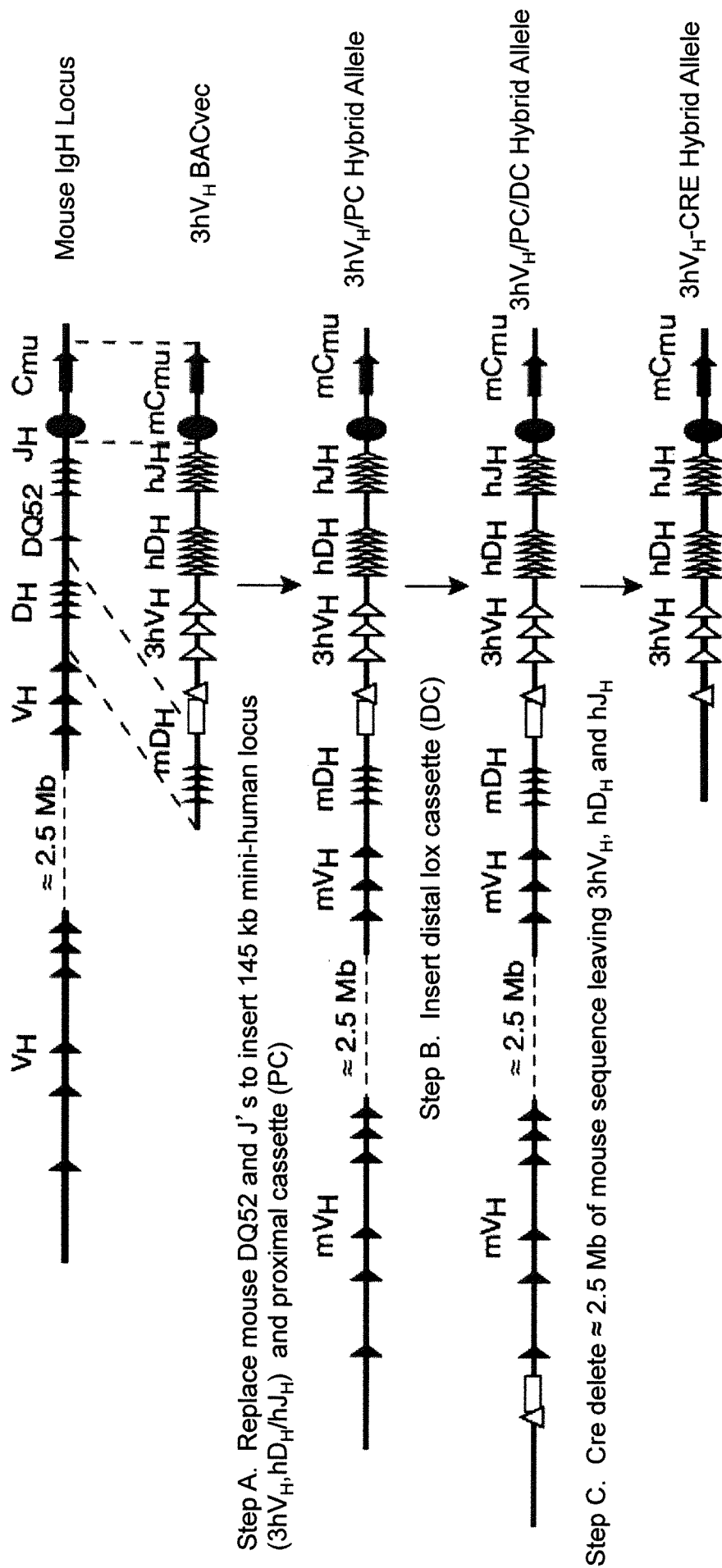


FIG. 2A

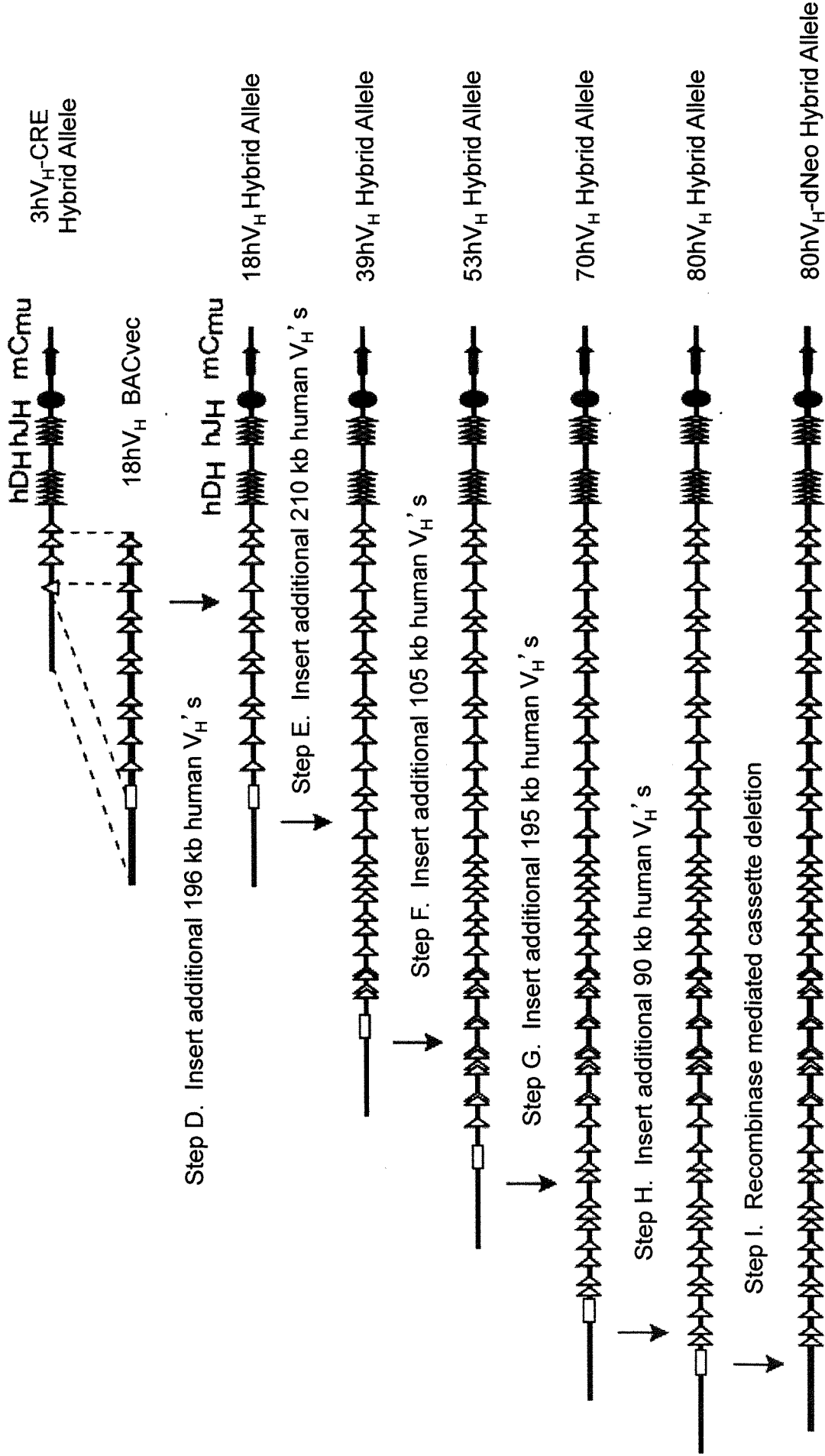


FIG. 2B

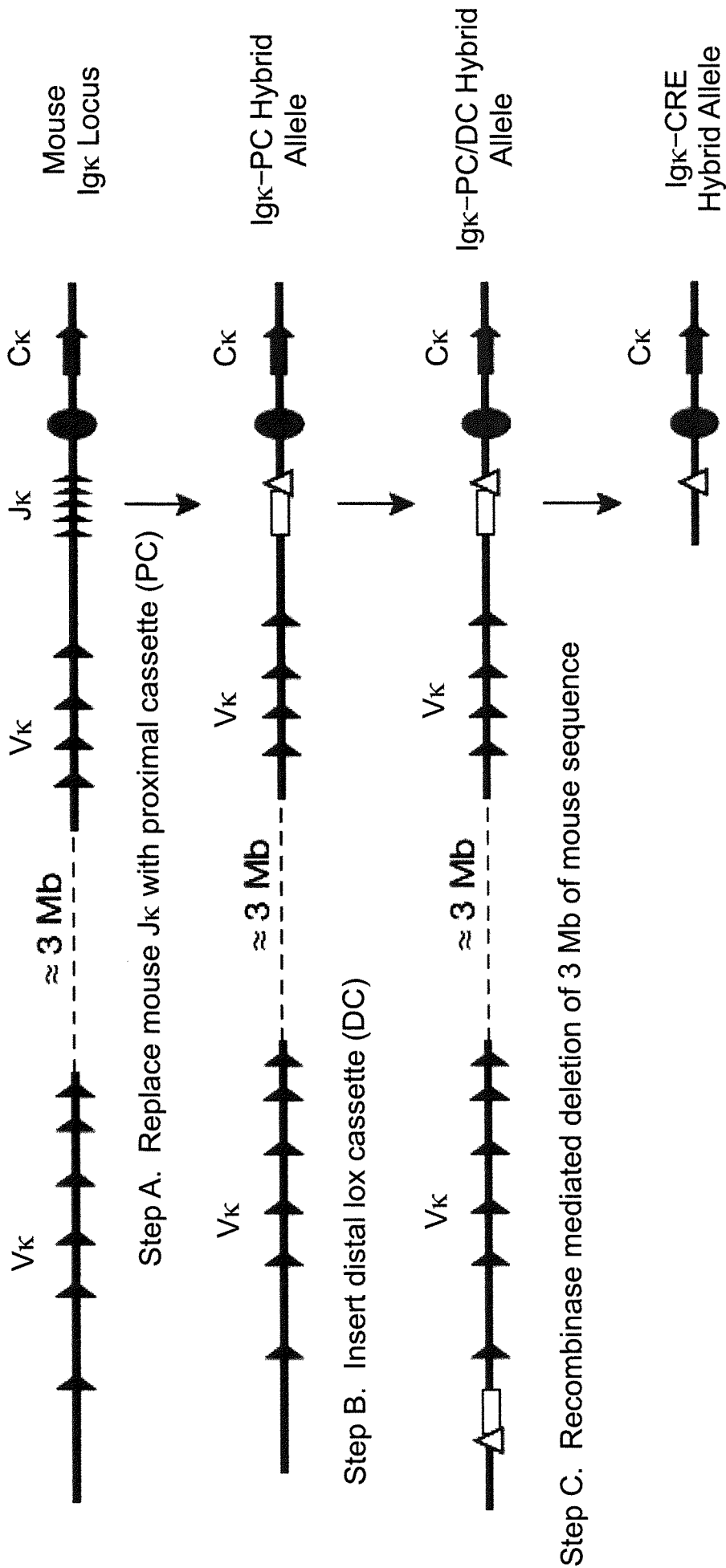


FIG. 2C

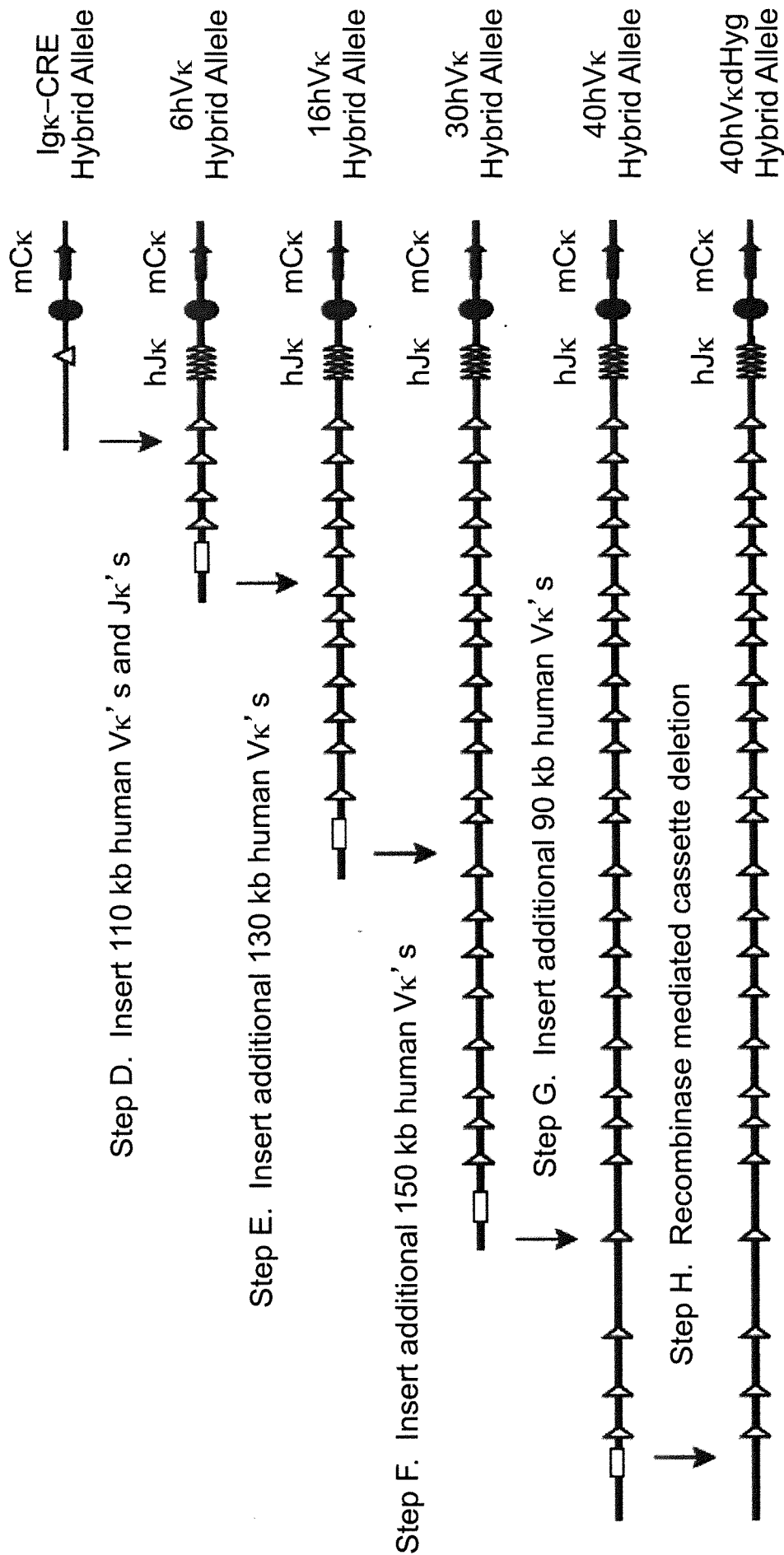


FIG. 2D

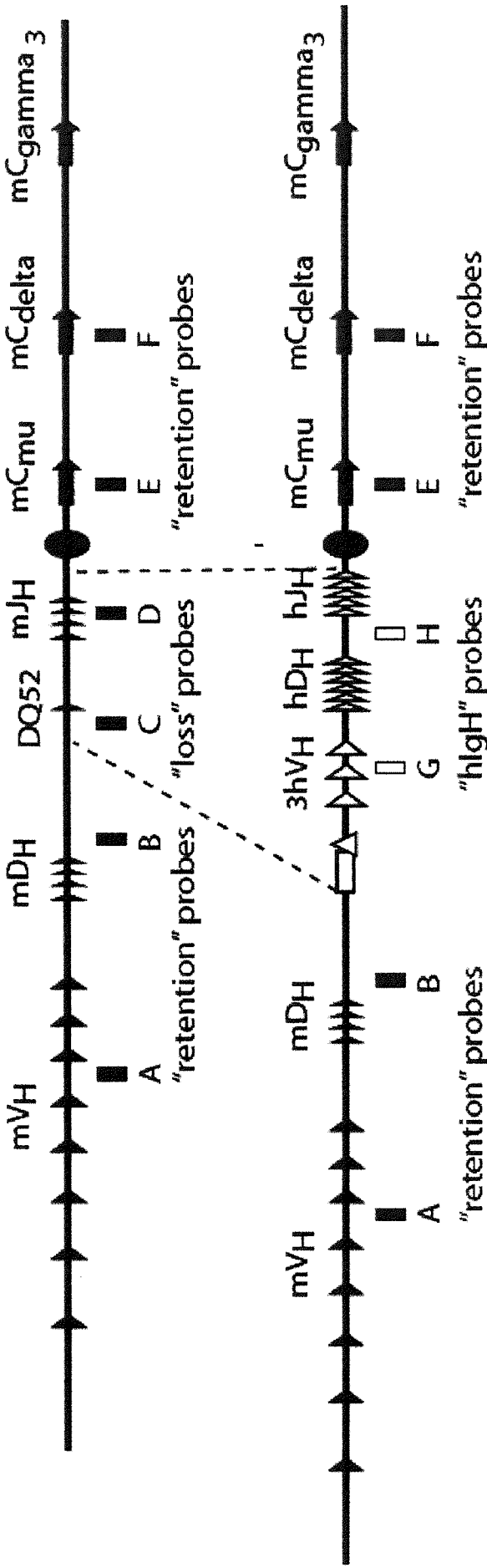


FIG. 3A

		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

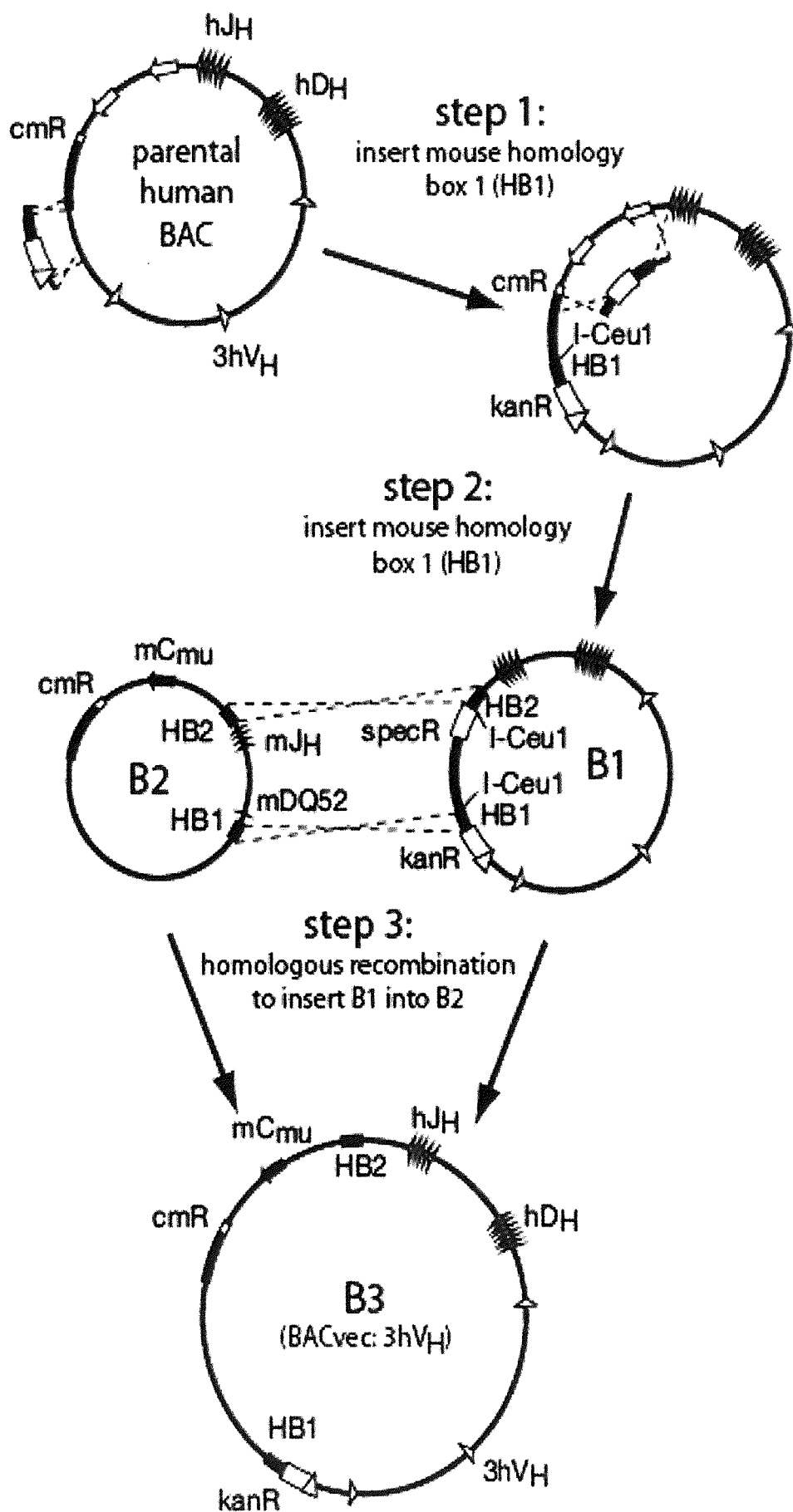


FIG. 4A

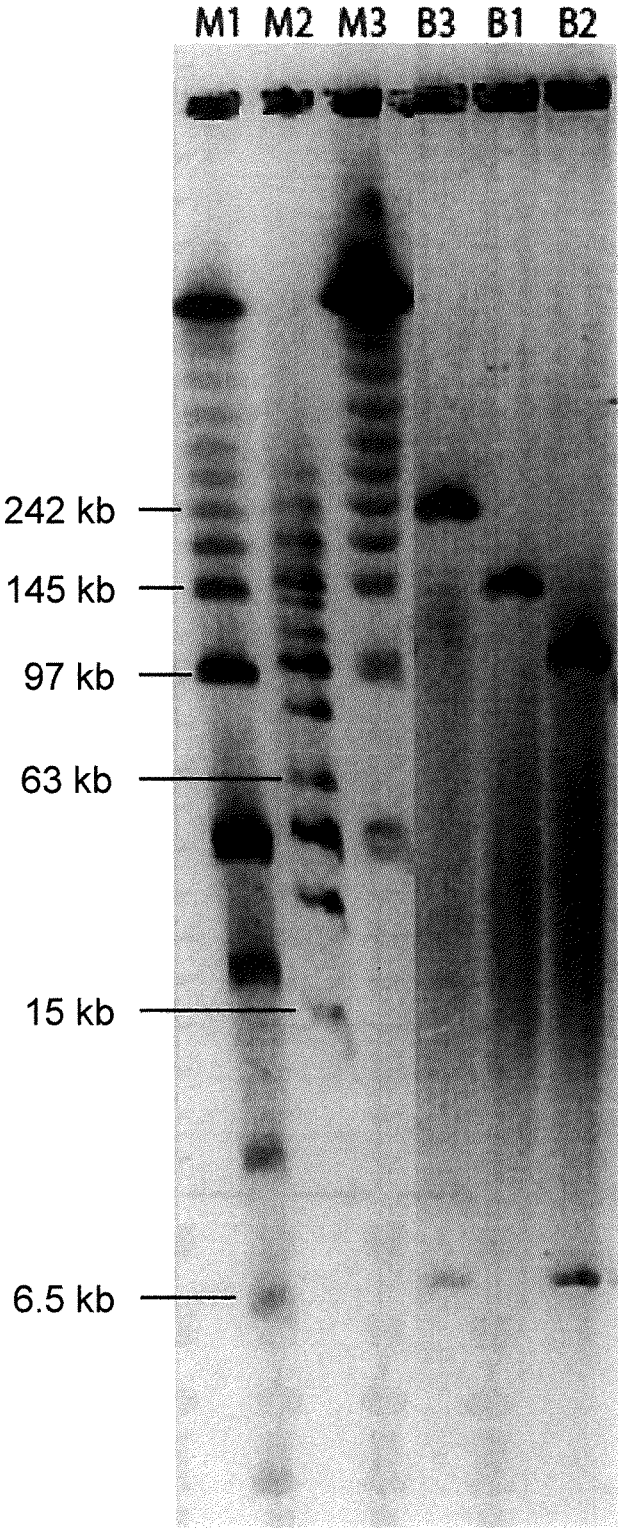


FIG. 4B

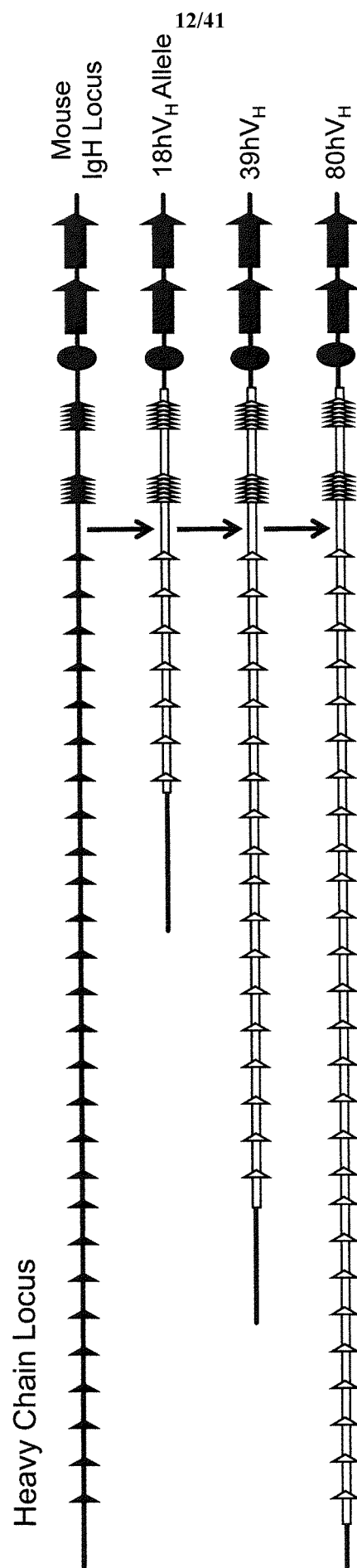


FIG. 5A

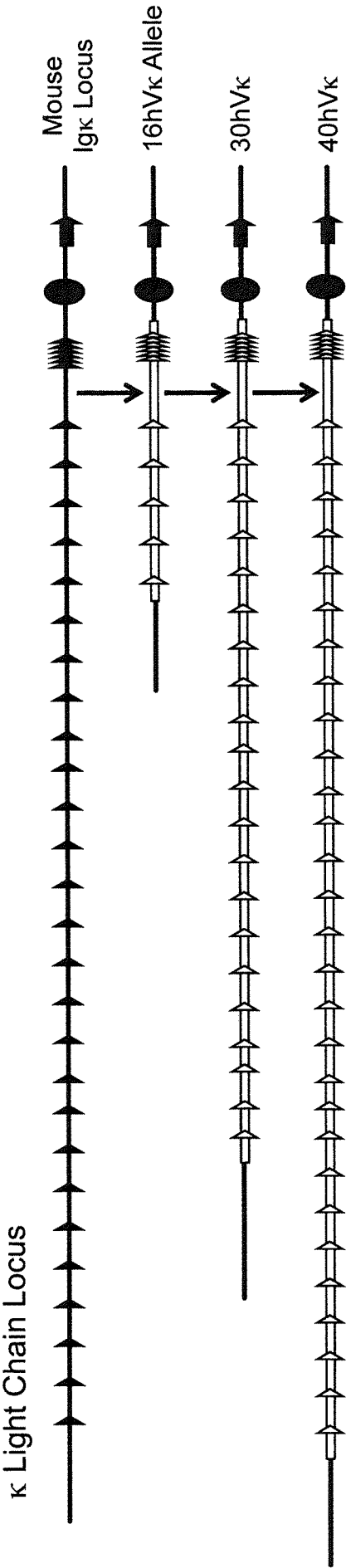


FIG. 5B

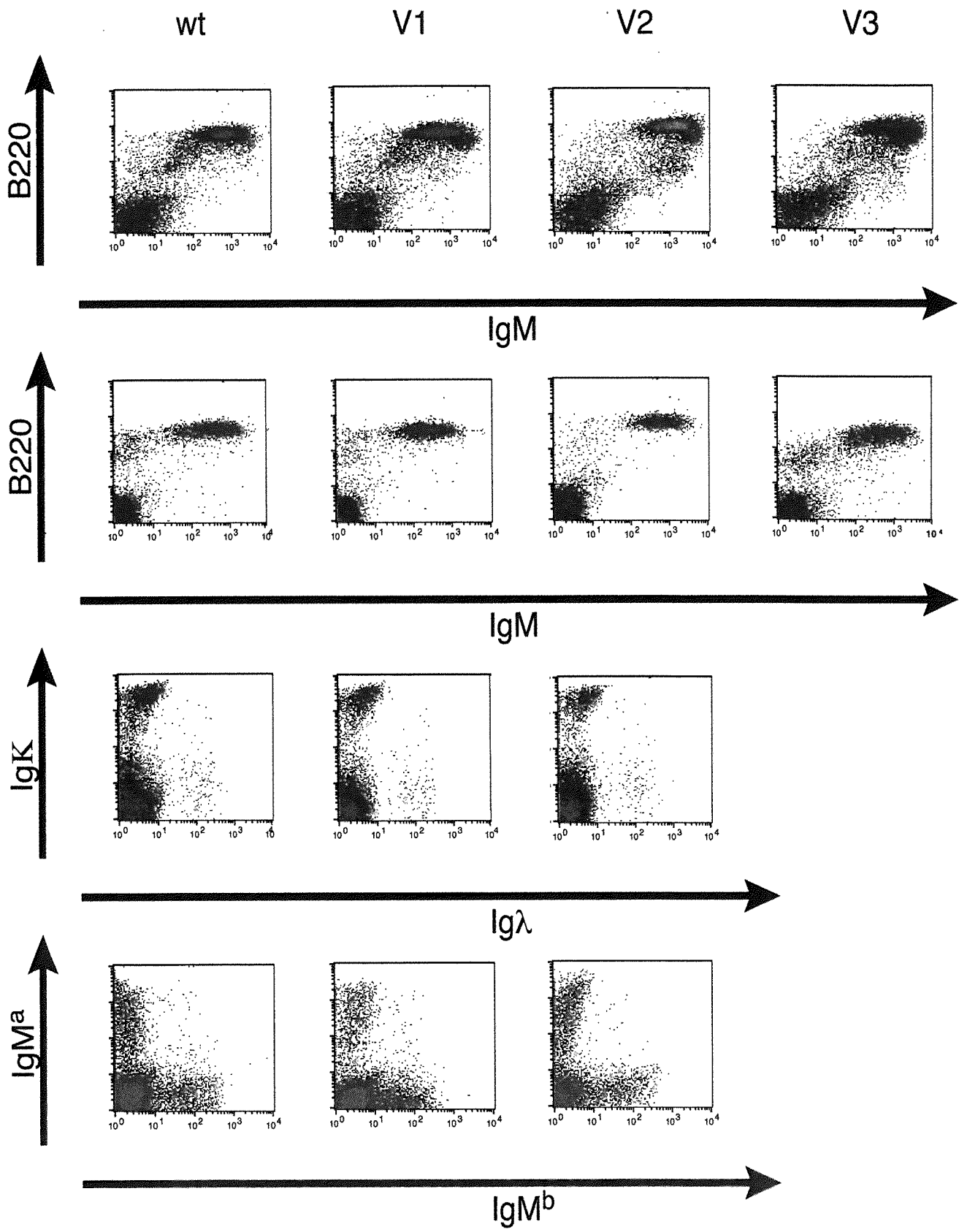


FIG. 6

3'V_H

N

D_H

N

5' J_H

(3-72)	GCTAG	(D _H 1-26)	GGTATAGTGGGAGCTACTAC	AGGC	CTTTTGATATC (3)
(3-9)	GCAAAAG		TAGTGGGgCCTAC	ACCT	ATGCTTTTGATATC (3)
(3-7)	GCGAGAGA	CCCAGGGG	AGTGGGAGCTACTAC	GAGG	ACTTTGATtTAC (4)
(4-59)	GCGAGAG	G	GGTATAGTGGGAaCTACT	CCT	CTTTGACTAC (4)
(3-23)	GCGAAA	GGAC	AGTGGGAGC	C	CTGGTTCGACCCC (5)
		CC	TAGTGGGAGCTACT		
(4-34)	GCGAGAGG	(D _H 1-7)	GGTATAACTGGAAC	CGA	ATGCTTTTGATATC (3)
(1-2)	GCGAGAG	AGGAG	GGTATAACTTGAACT		ACTACTTTGACTAC (4)
(3-23)	GCGAAAGA	GA	TATAACTGGA	TGG	TACTTTGACTAC (4)
(3-7)	GCGAGAGA	G	GTATAACTGGAACcAC	CCC	CTTTGACTAC (4)
(4-59)	GCGAG	GGGA	ATAACTGGAAC	TTTCTTTT	TTTGACTAC (4)
(4-39)	GCGAGA	GG	TATAACTGGAAC	CTCTGGG	CTTTGACTAC (4)
			TAACTGGAAC		
(3-30)	GCGA	(D _H 3-10)	GTATTACTATGGTTCGGGAGTTATTAAAC	CTC	TTGACTAC (4)
(1-2)	GCGAGAGA	AAAGGC	TACTATGGTTCGGGAG	GAAGGT	CTACGGTATGGACGTC (6)
			TATTACTATGGTTCGGGAGTTATTAAAC		
(1-2)	GCGAGAGA	(D _H 6-6)	GAGTATAGCAGCTCGTCC		CTTTGACTAC (4)
(3-48)	GCGAGA		GTATAGCAG	TG	TGACTAC (4)
(3-13)	GCAAGAGA	GA	GAGTATAGCAGCTCGT	CTCGG	TACTTTGACTAC (4)
		GG	ATAGgAGCTCGcCC		
(3-7)	GCGAGAGA	(D _H 7-27)	CTAACTGGGGA	AGG	CTAC (4)
(3-15)	ACCAC	TCT	TGGGGA	GGG	TTTGACTAC (4)
(3-48)	GCGAGA	CCA	TAACTGGGGA		CCg (5)
		GATA	GGGGA		

FIG. 7A

3'Vk	N	5' Jk
(1-6) CAACAGAGTTATAGTACCCCTCC	GGA	GACG(1)
(1-9) CAACAGCTTAATAGTTACCCCTC		GGACG(1)
(1-9) CAACAGCTTAATAGTTACC		ATTCACT(3)
(1-9) CAACAttTAAATAGTTACCC		GCTCACT(4)
(3-15) CAGCAGTATAATAACTGGCCTC		TCACT(4)
(1-17) CTACAGCATAAATAGTTACCC		GTGGACG(1)
(1-17) CTACAGCATAAATAGTTACCCCTC		GGACG(1)
(3-20) CAGCAGTATGGTAGCTCACCTC		GGACG(1)
(2-30) ATGCAAGGTACACACTGGCC		GTGGACG(1)
(2-30) ATGCAAGGTTcCACACTGGCC		GTACACT(2)
(2-30) ATGCAAGGTACACACTGGCC		GCTCACT(4)
(1-33) CAACAGTATGATAAATCTCCCTCC		CACT(3)
(1-33) CAACAGTATGATAAATCTCCC		ATTCACT(3)
(1-33) CAACAGTATGATAAATCTCCC	CG	TCACT(4)
(1-33) CAACAGTATGATAAATCTCCC		GATCACCC(5)
(1-37) CAACGGAtTTACAATGCC	GA	CACC(5)
(1-39) CAACAGAGTTACAGTACCCCC	CA	TGTACACT(2)
(1-39) CAACAGAGTTACAGTACCCCTC		TCACT(4)
(1-39) CAACAGAGTTACAGTACTCCTCC		CACT(4)

FIG. 7B

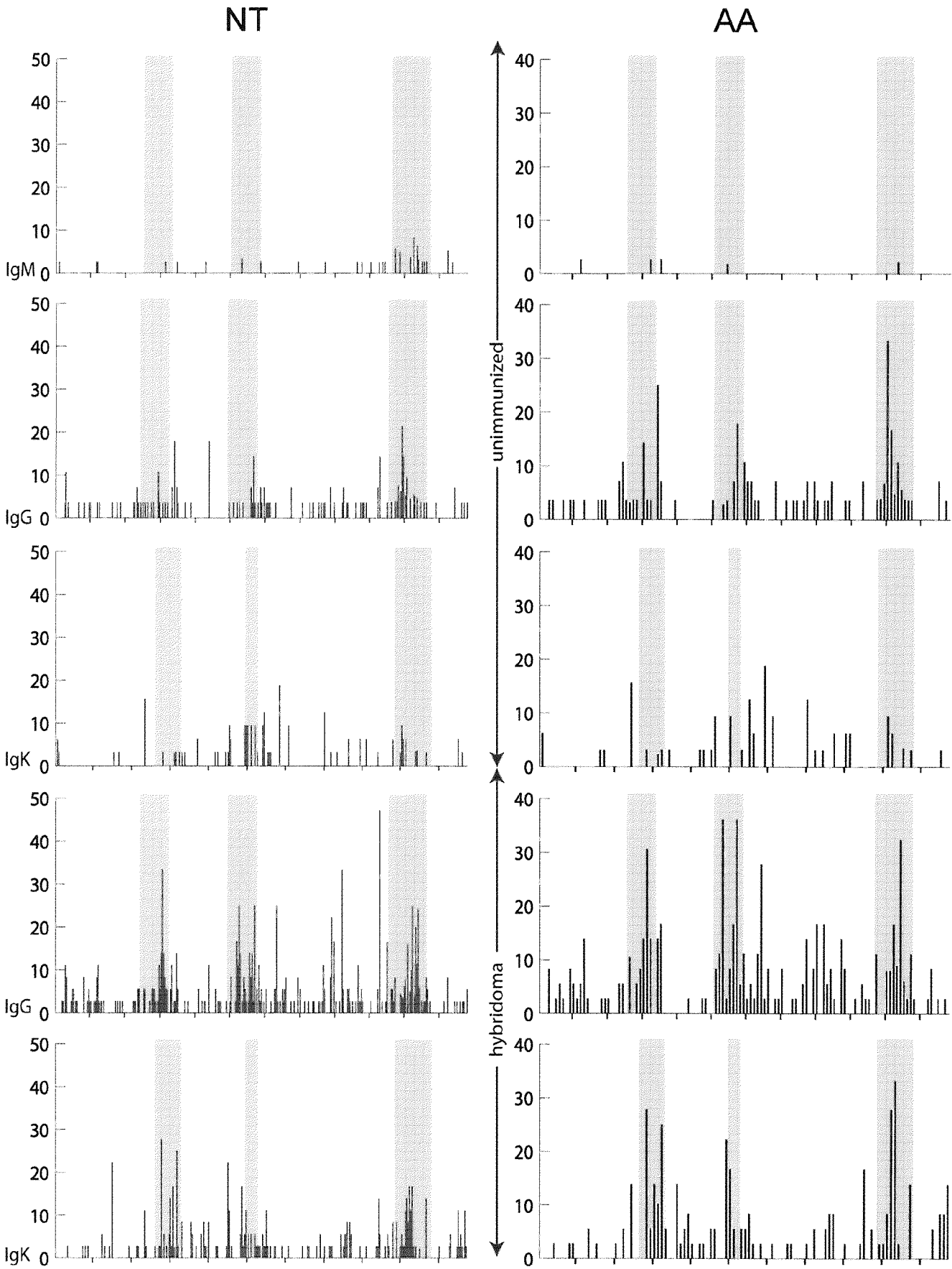


FIG. 8

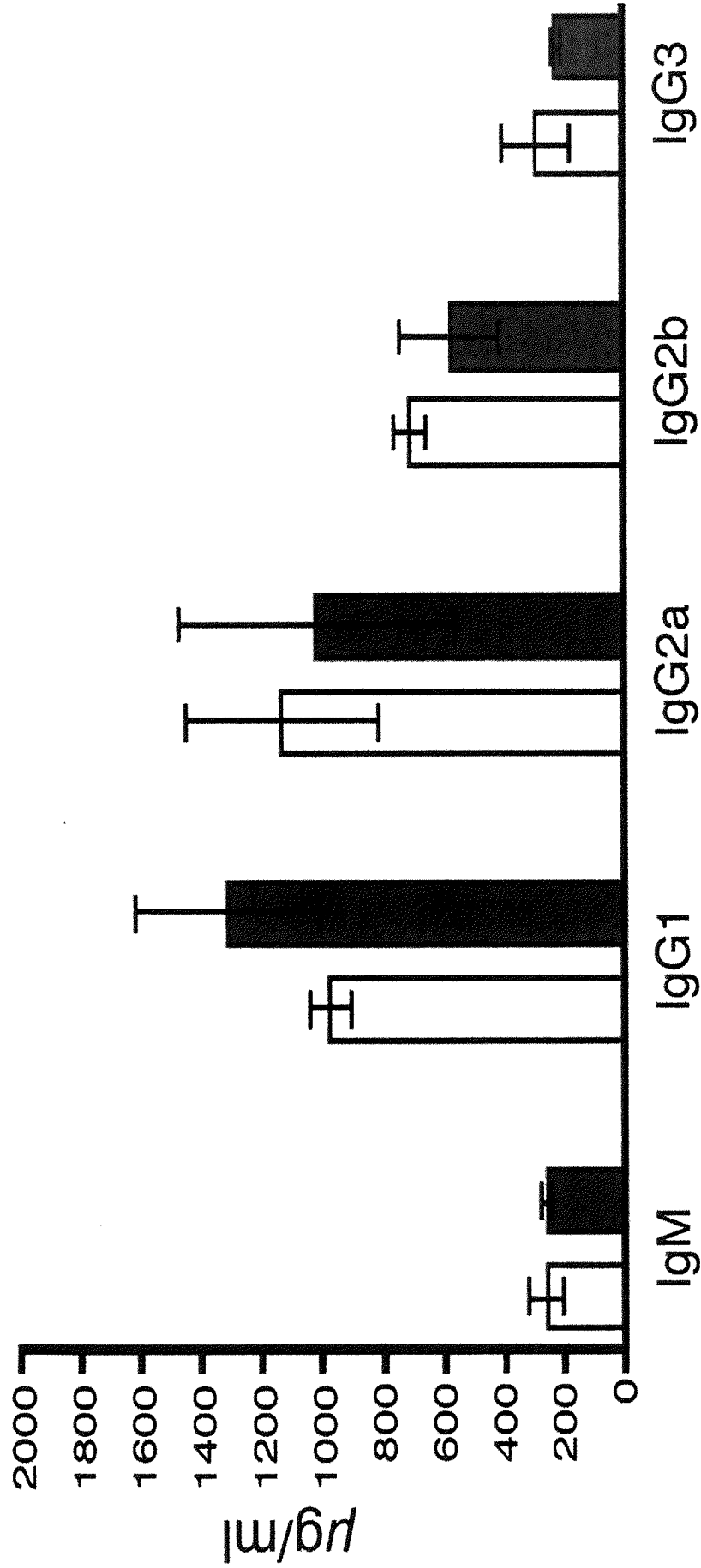


FIG. 9A

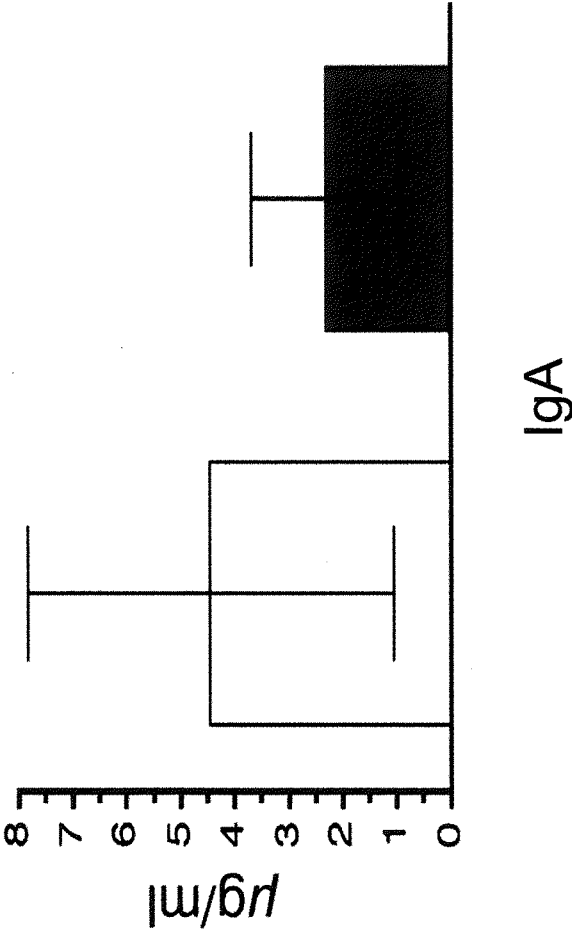


FIG. 9B

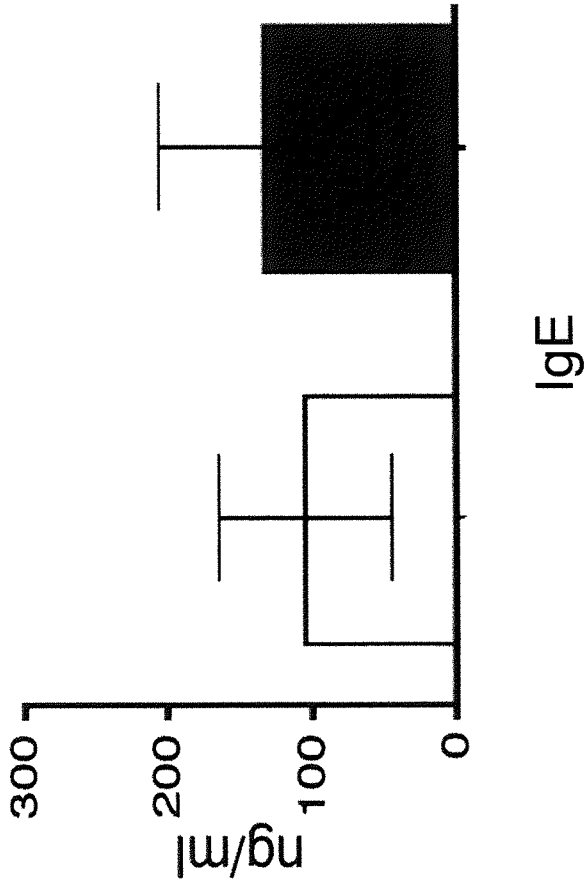


FIG. 9C

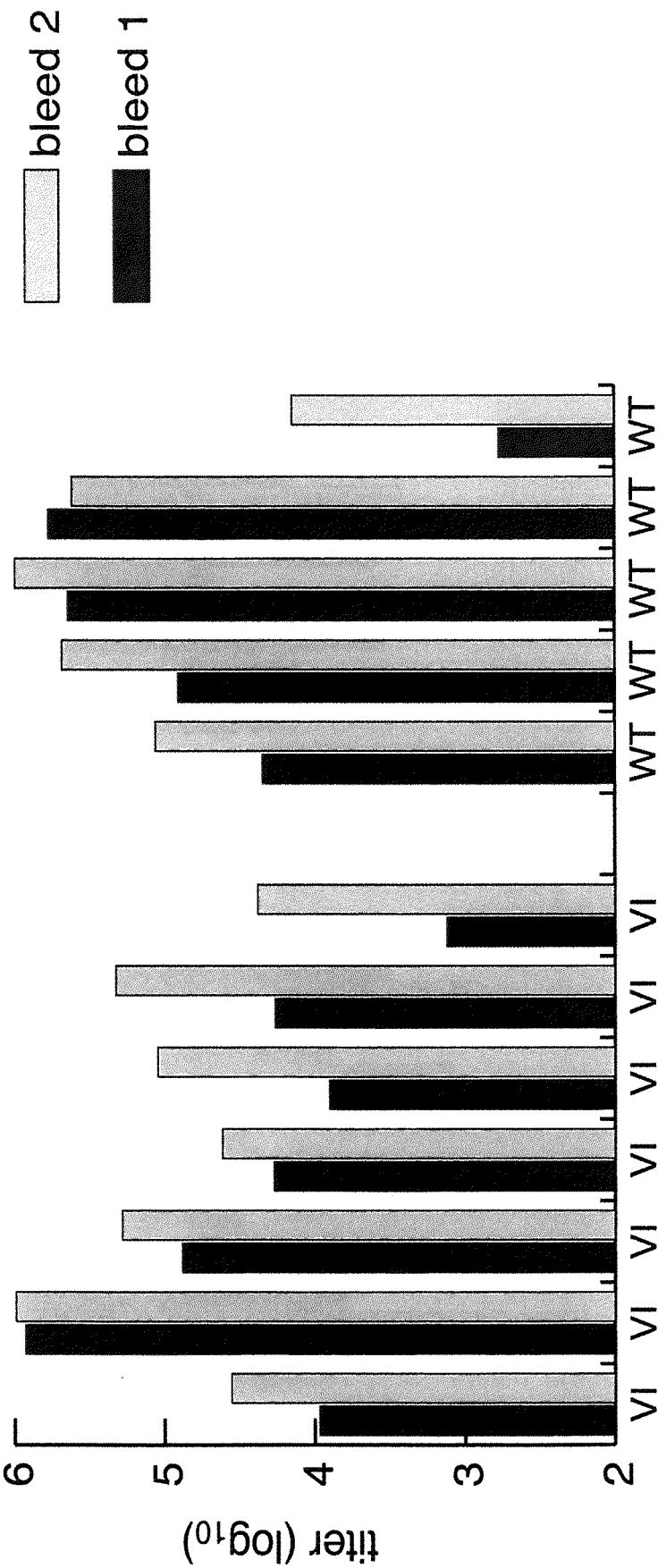
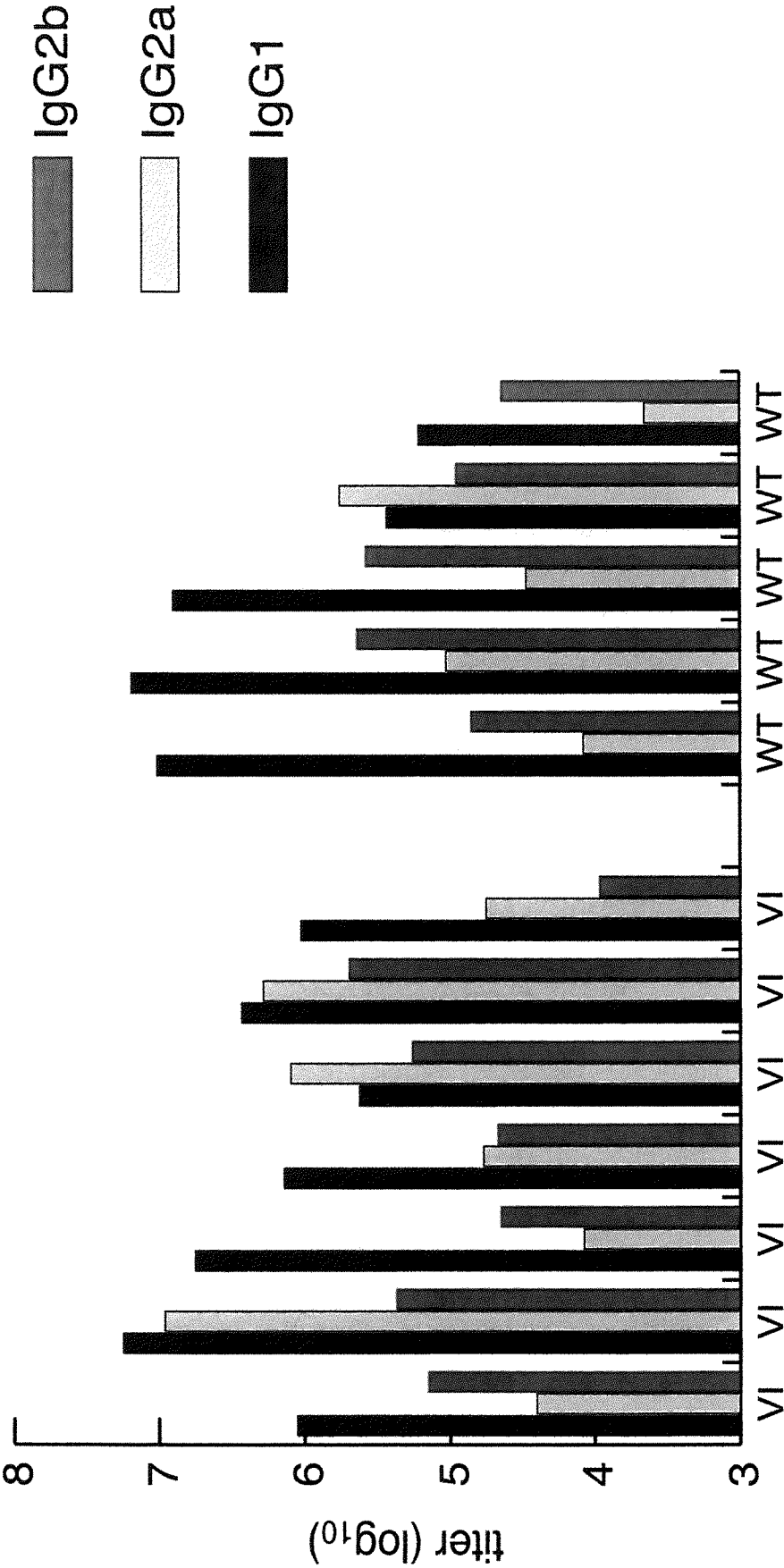


FIG. 10A



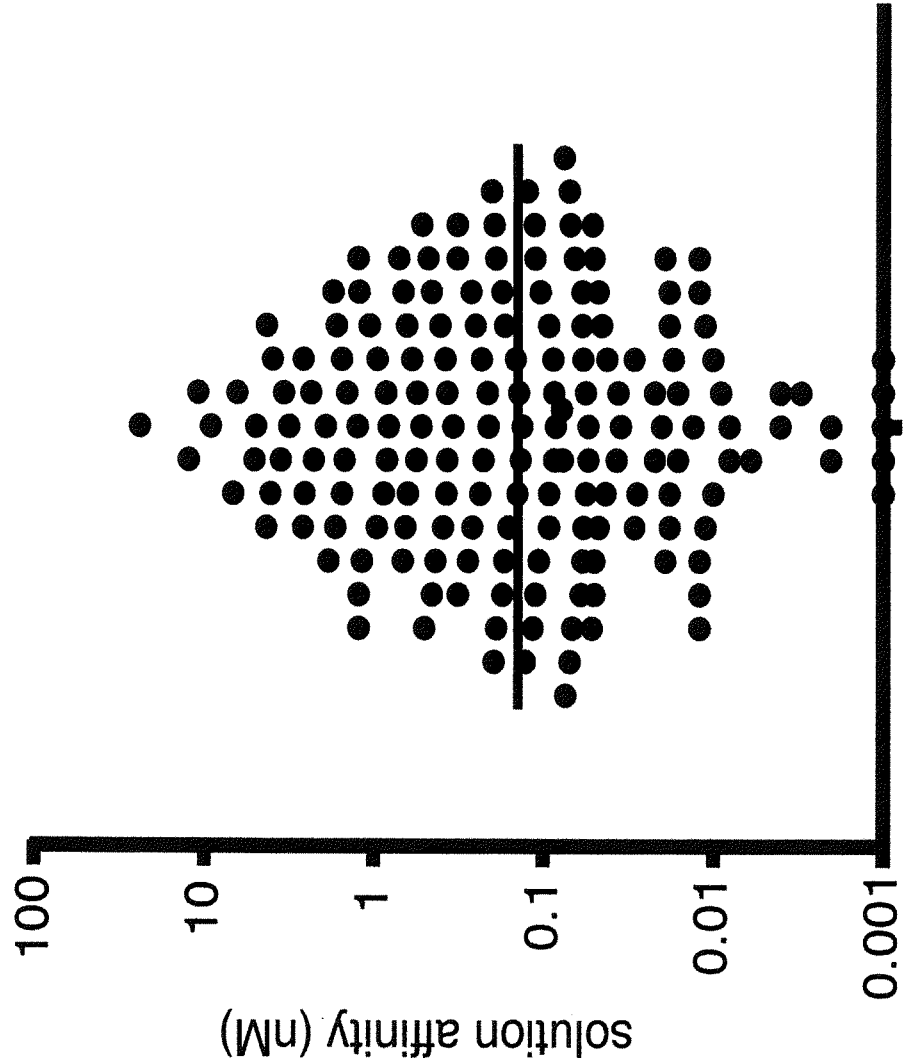


FIG. 11A

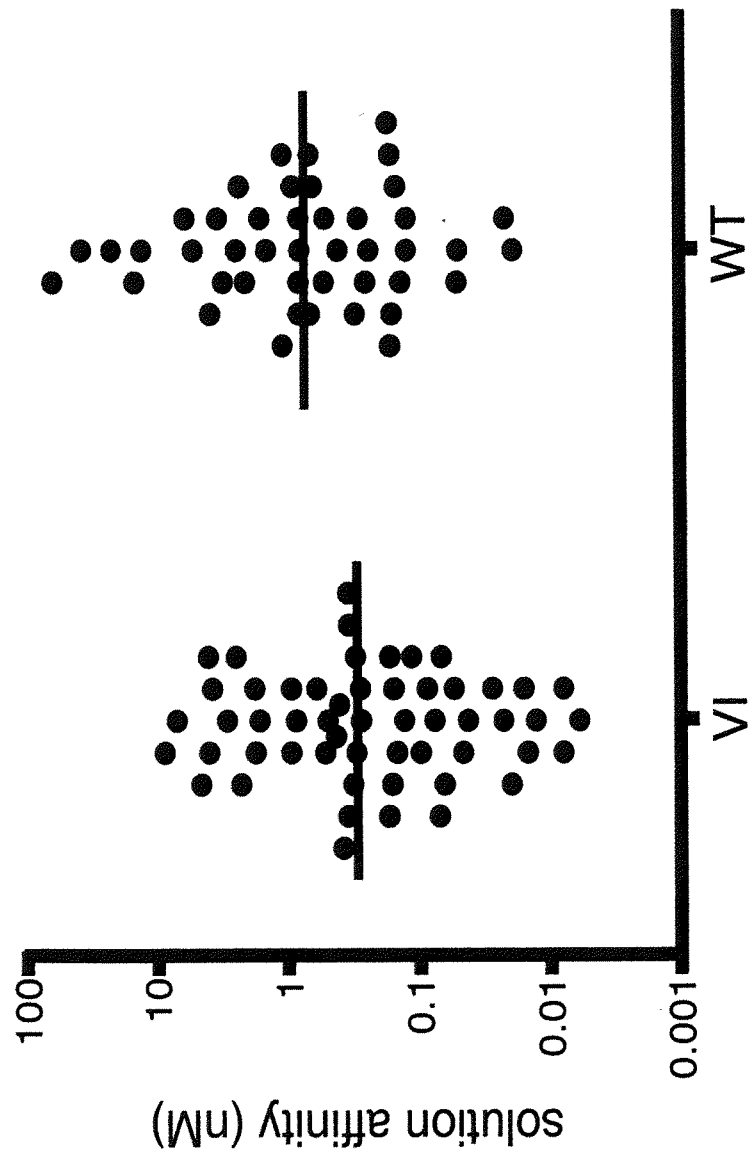


FIG. 11B

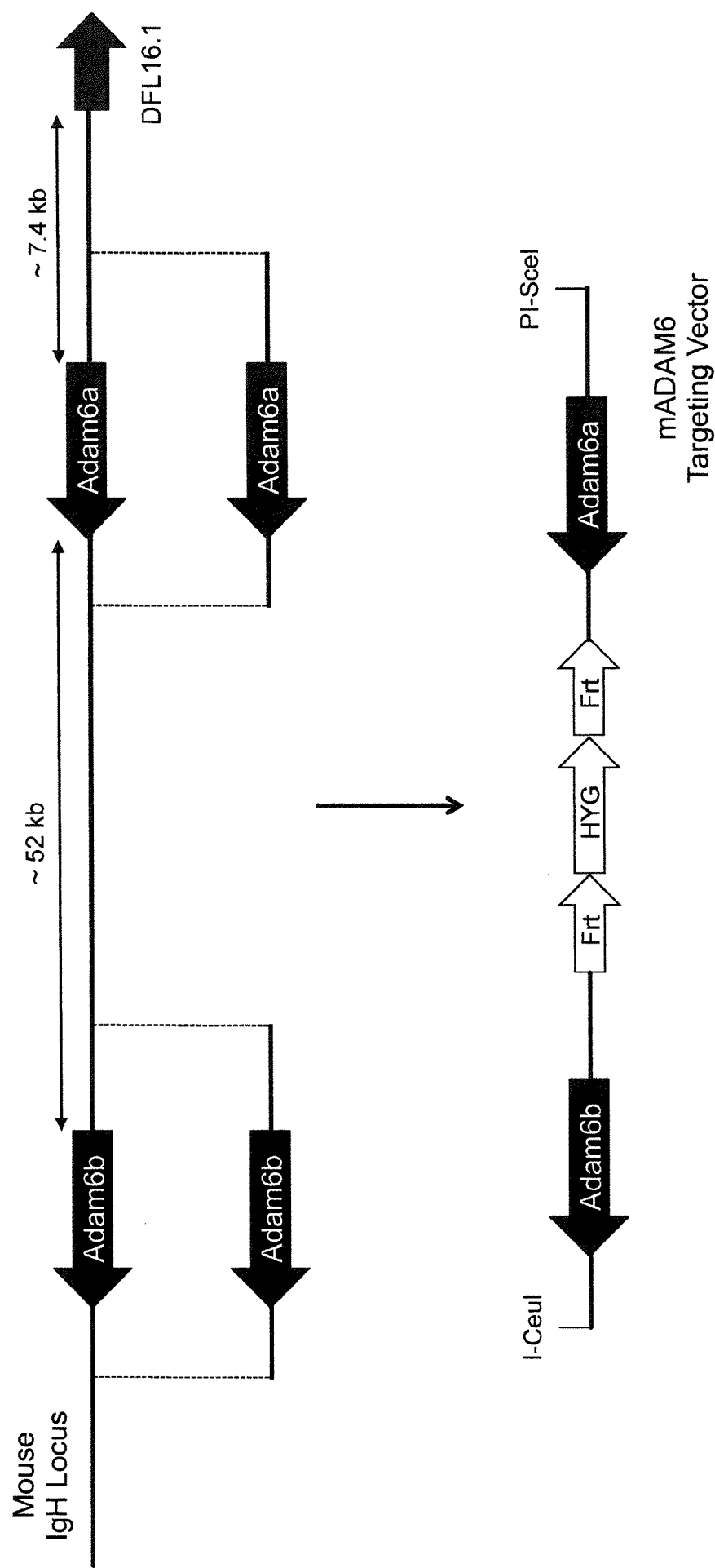


FIG. 12

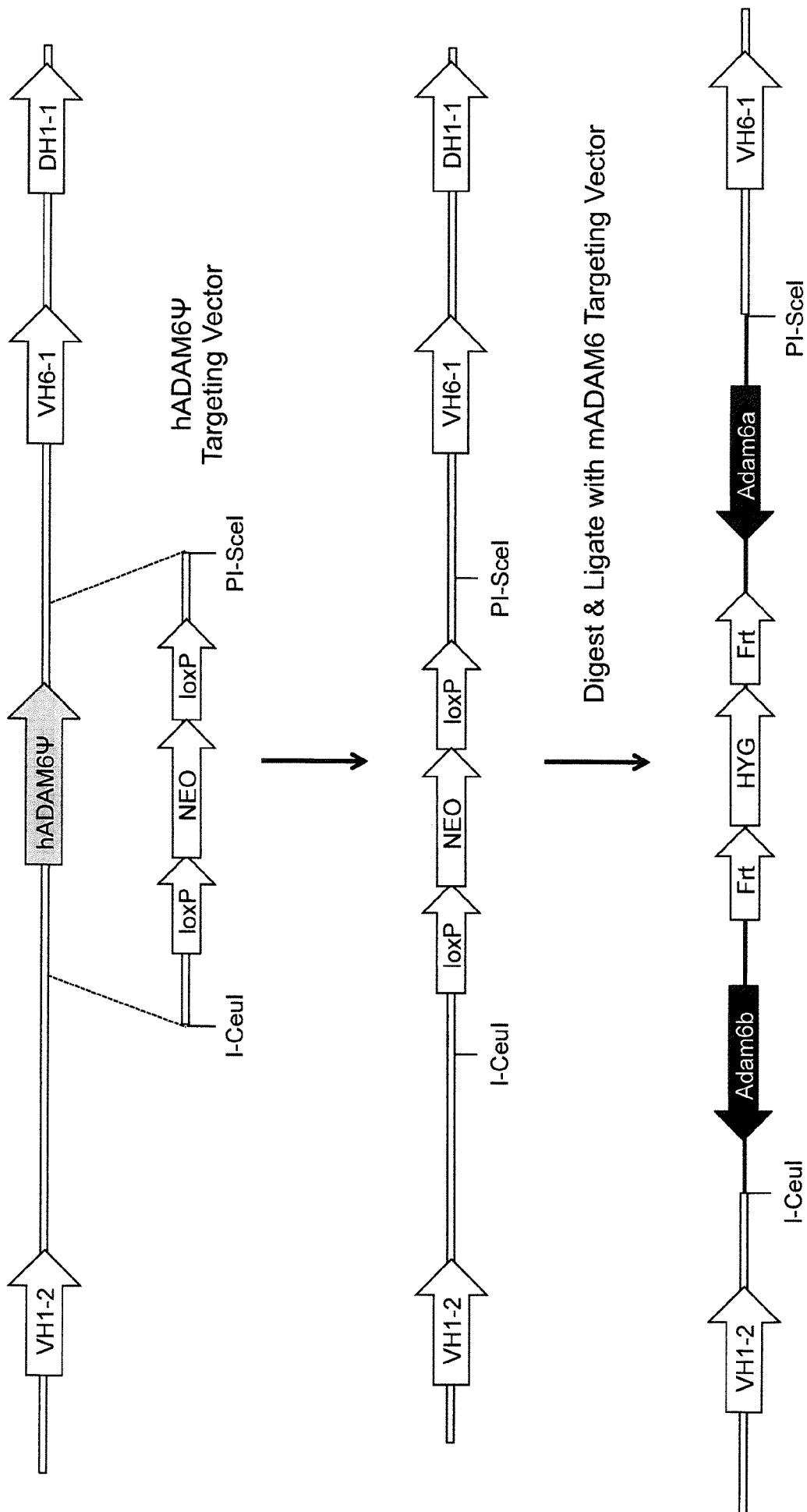


FIG. 13

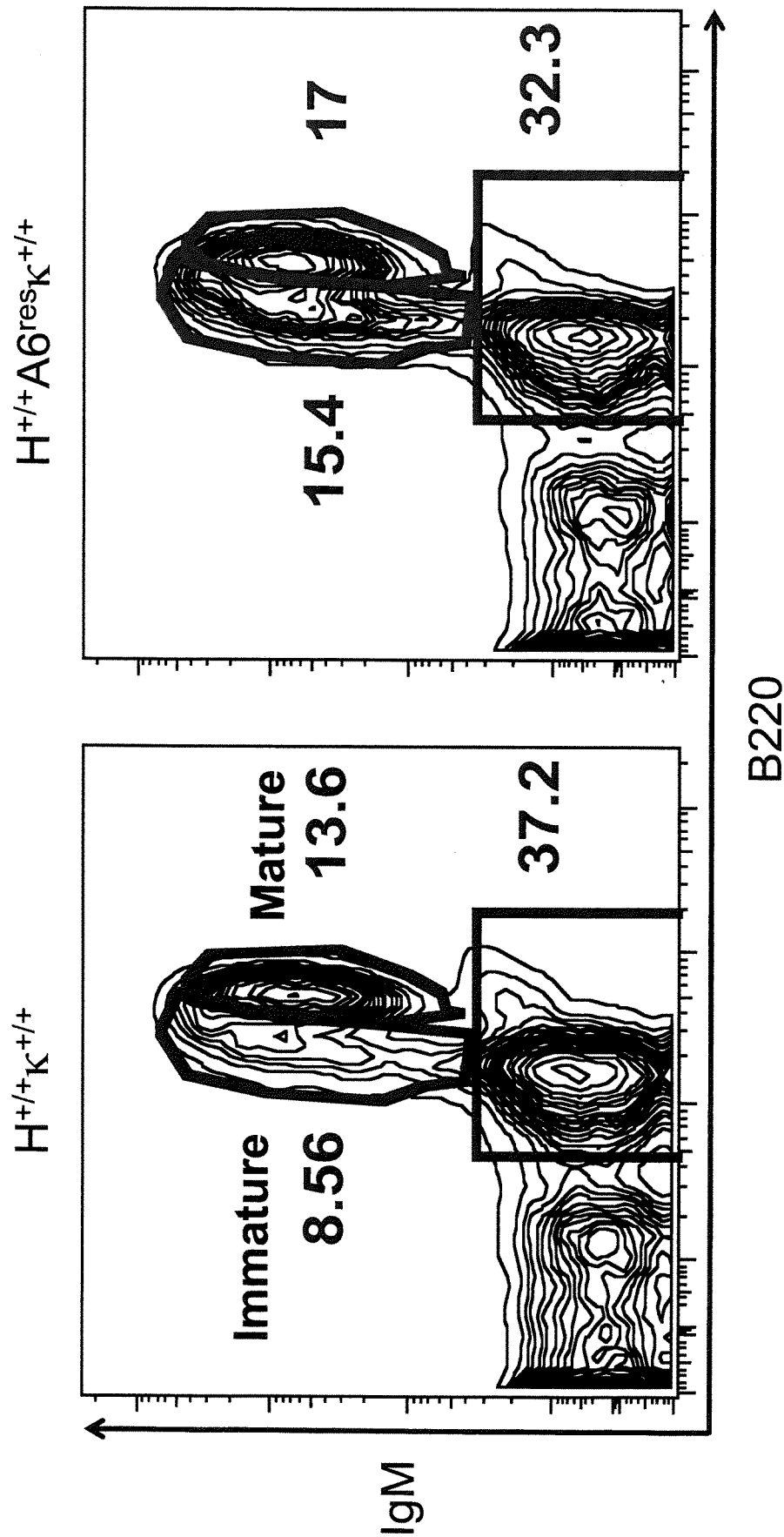


FIG. 14A

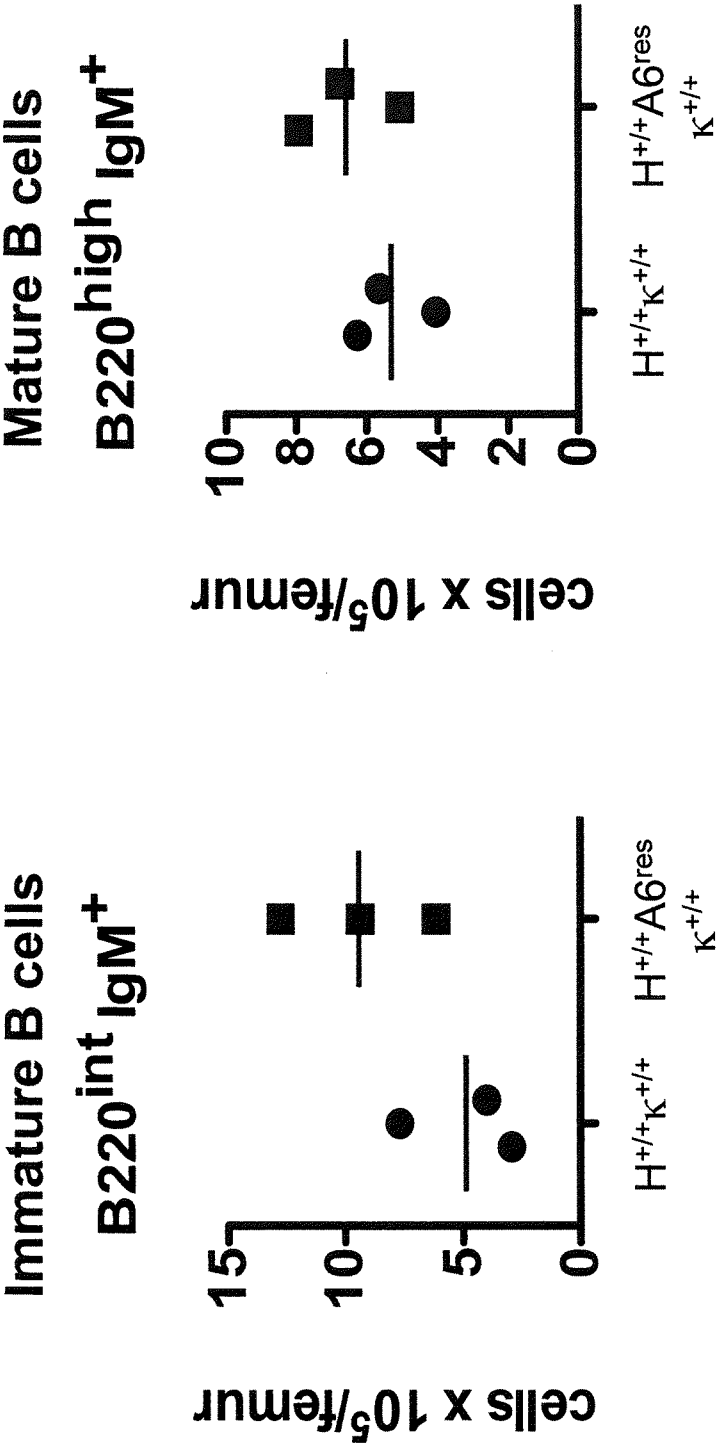


FIG. 14B

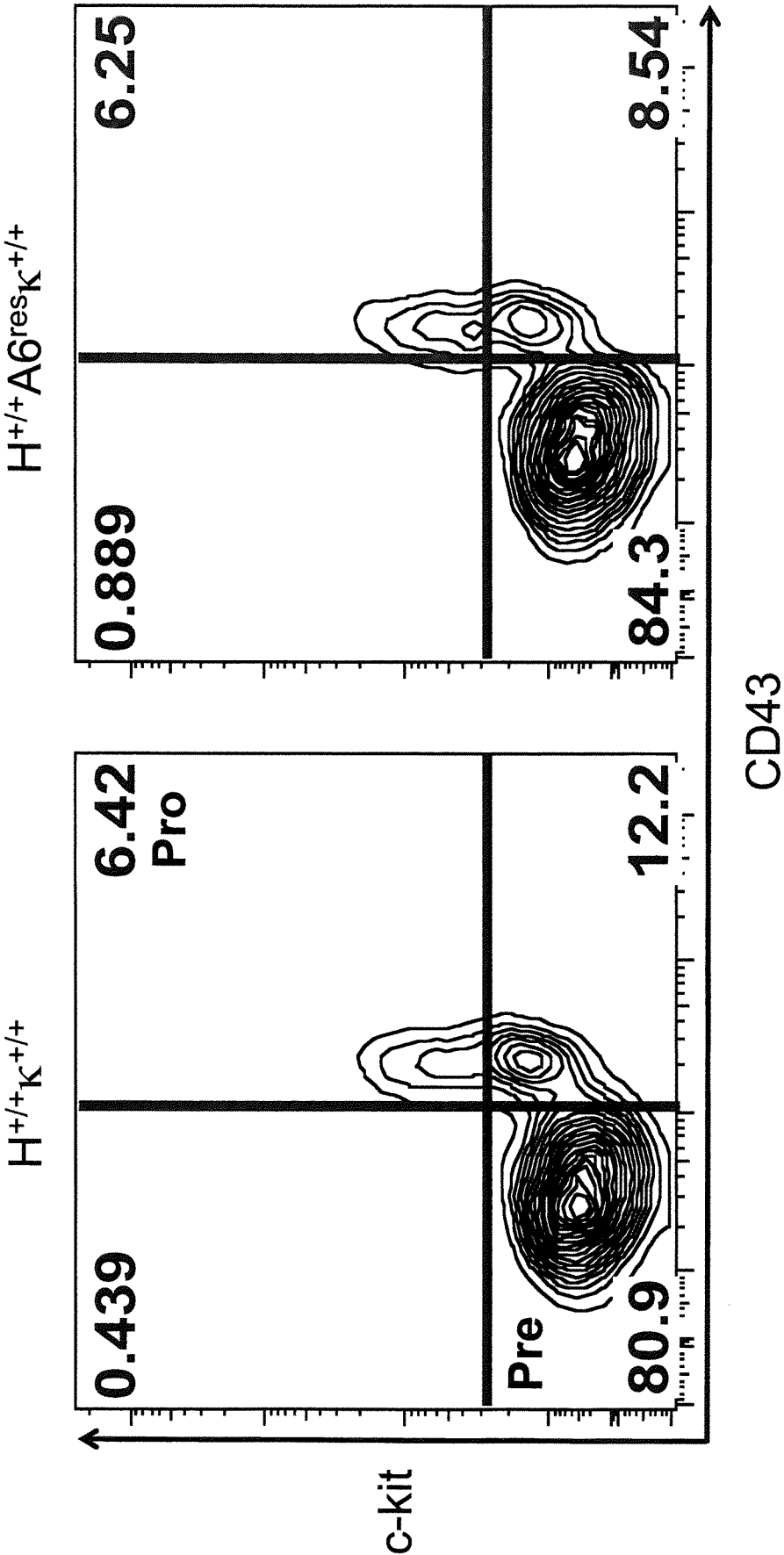


FIG. 15A

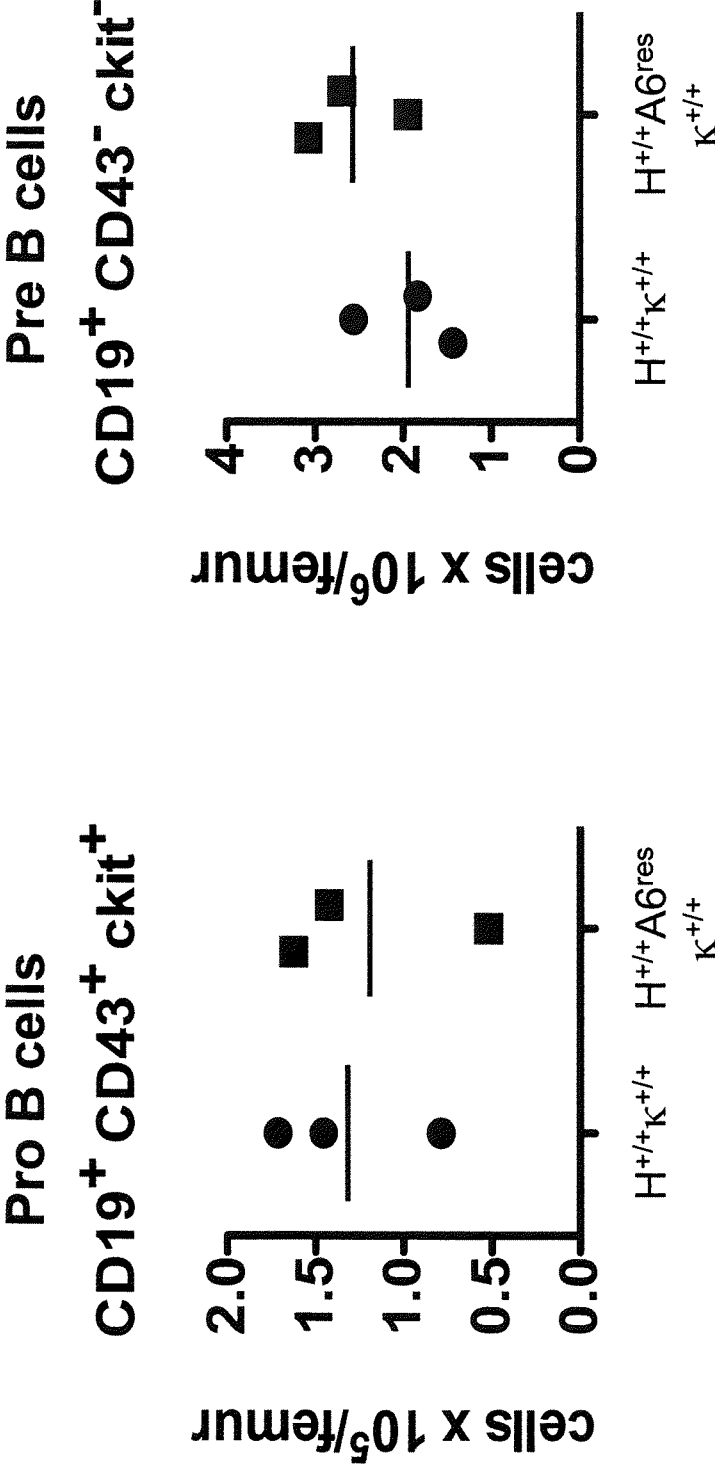


FIG. 15B

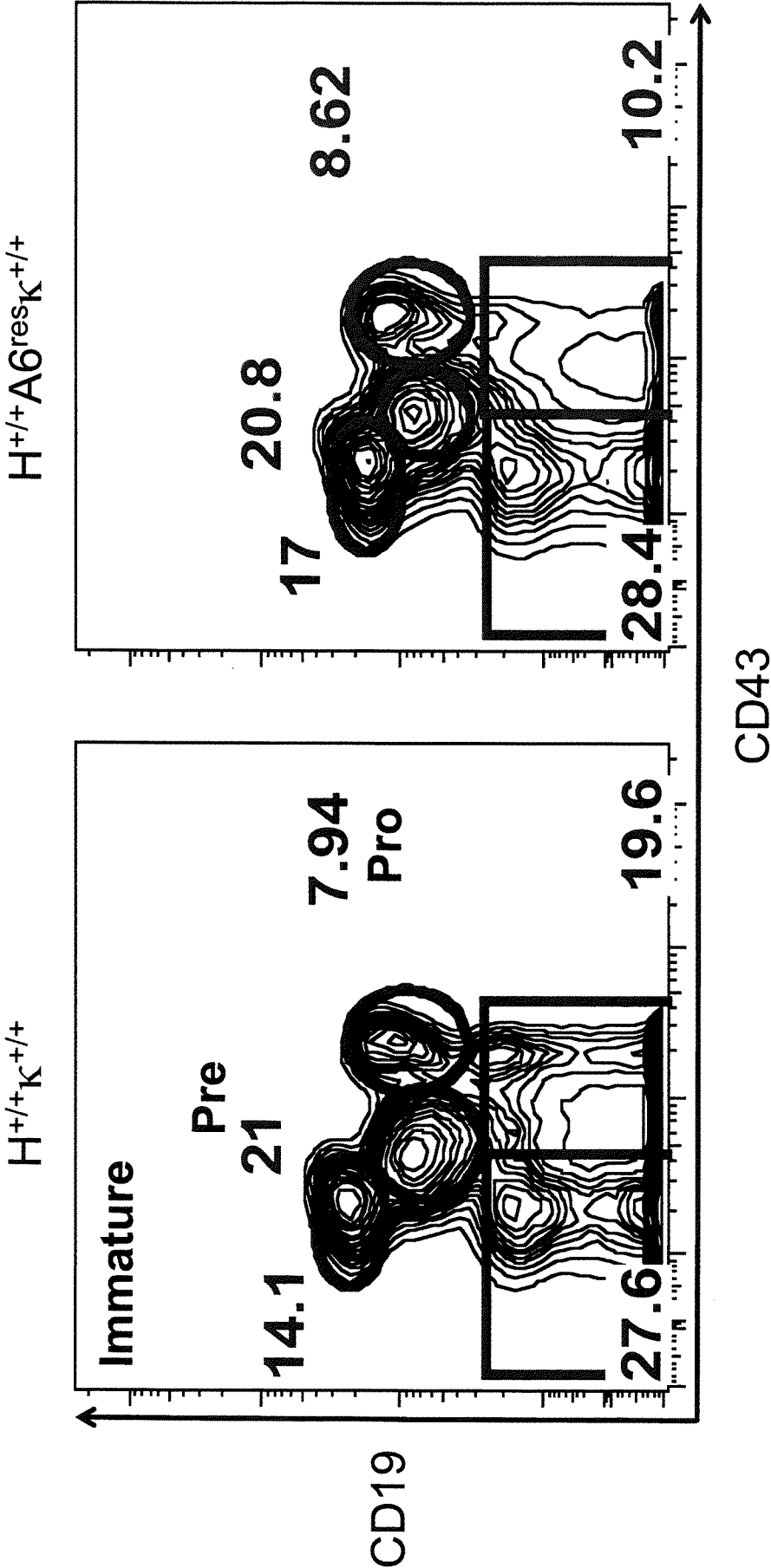


FIG. 16A

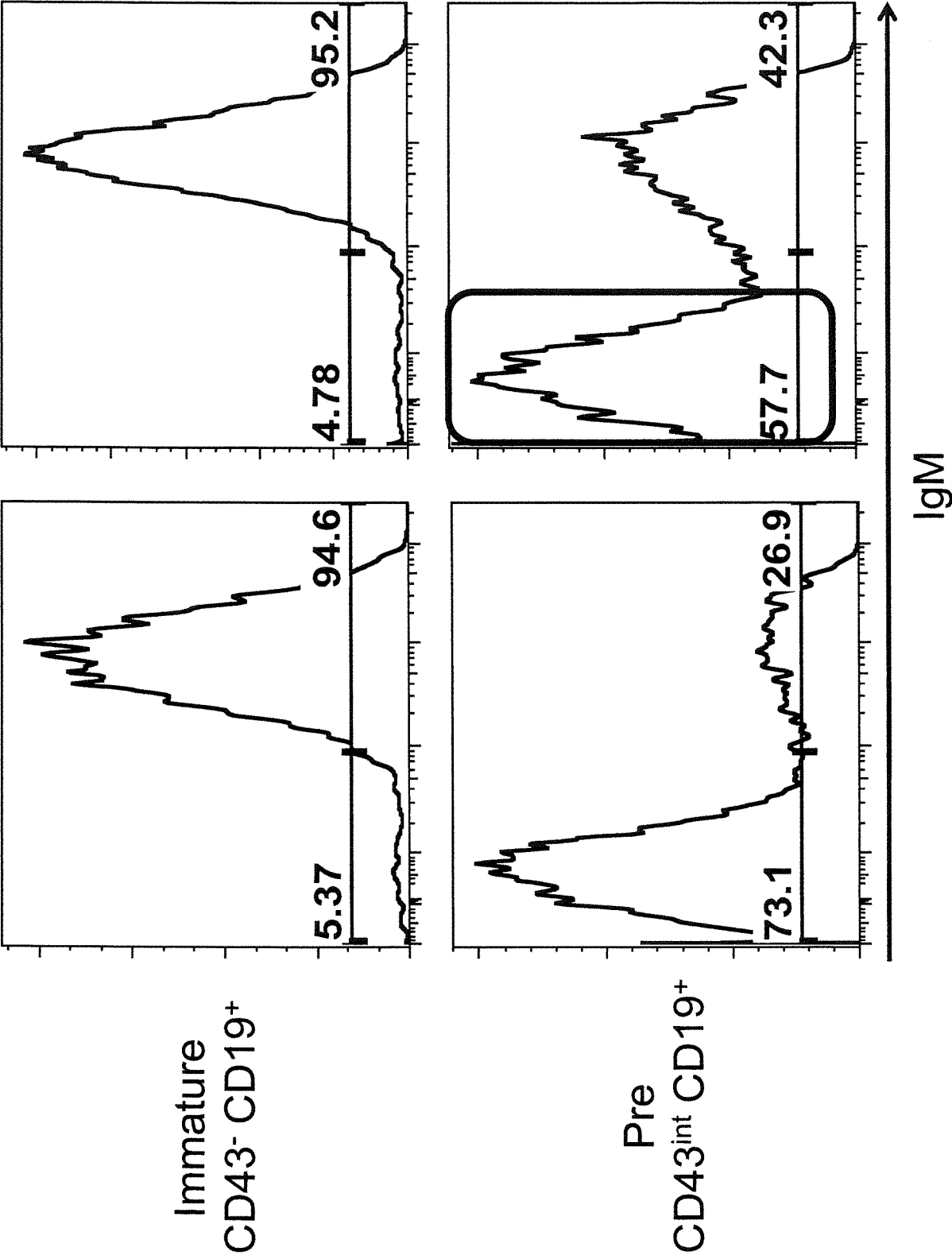


FIG. 16B

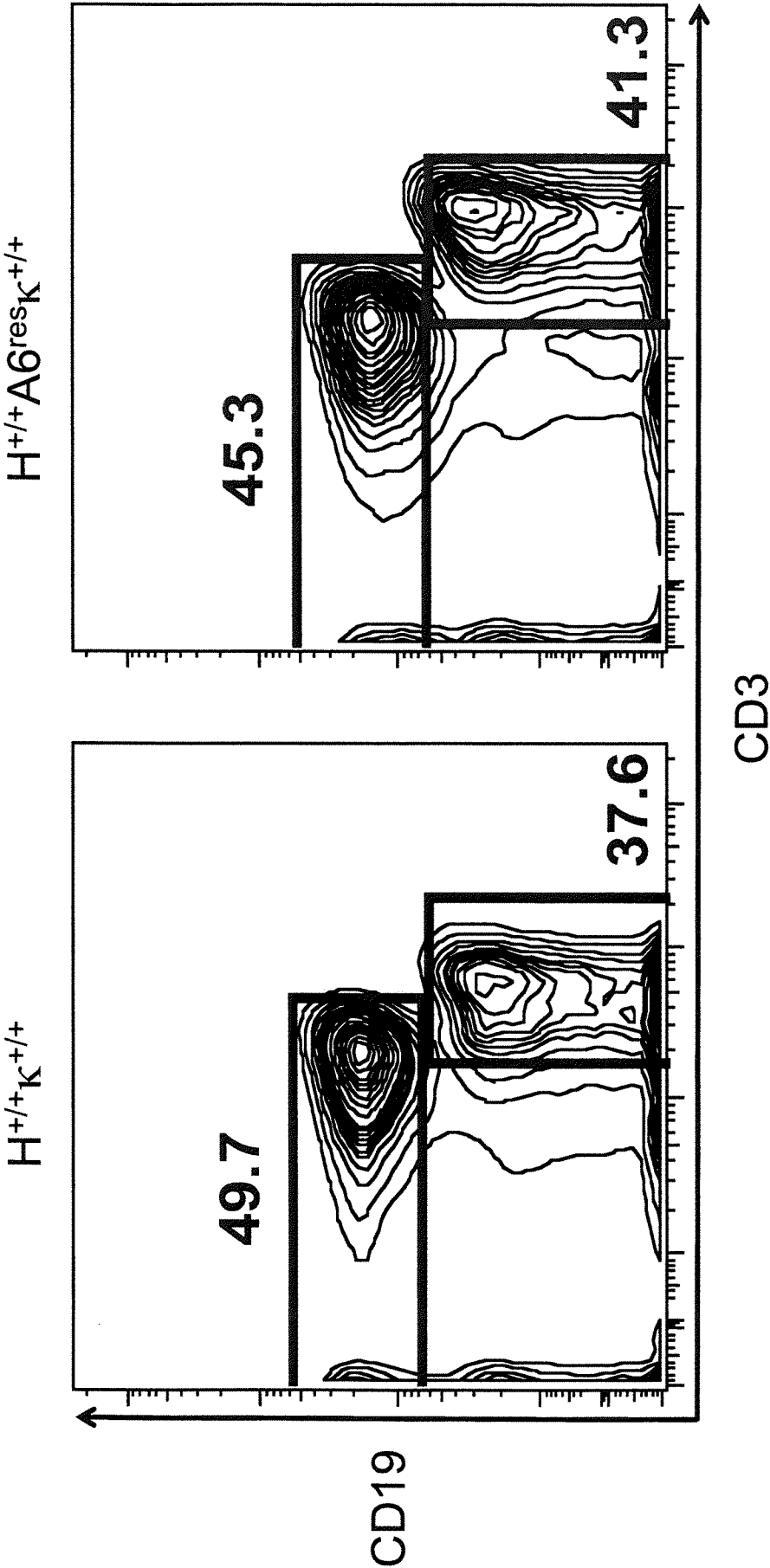


FIG. 17A

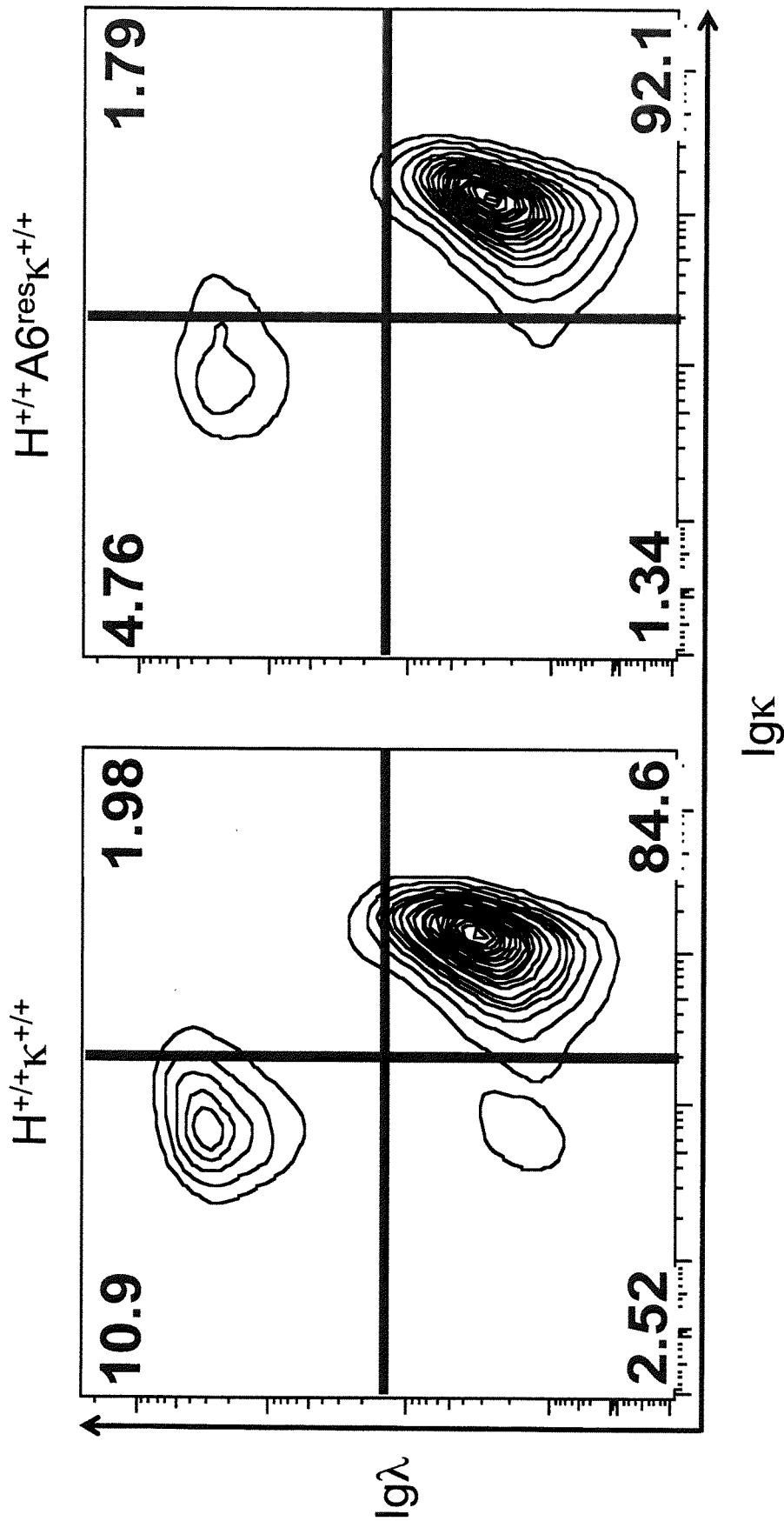


FIG. 17B

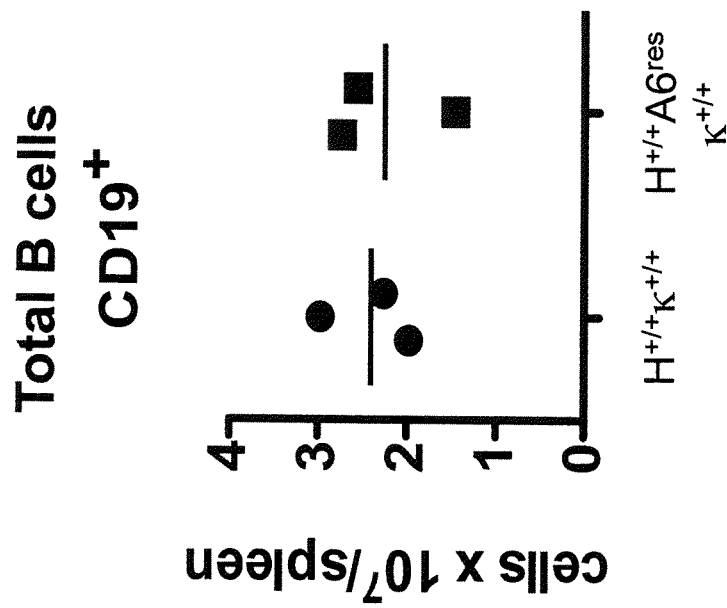


FIG. 17C

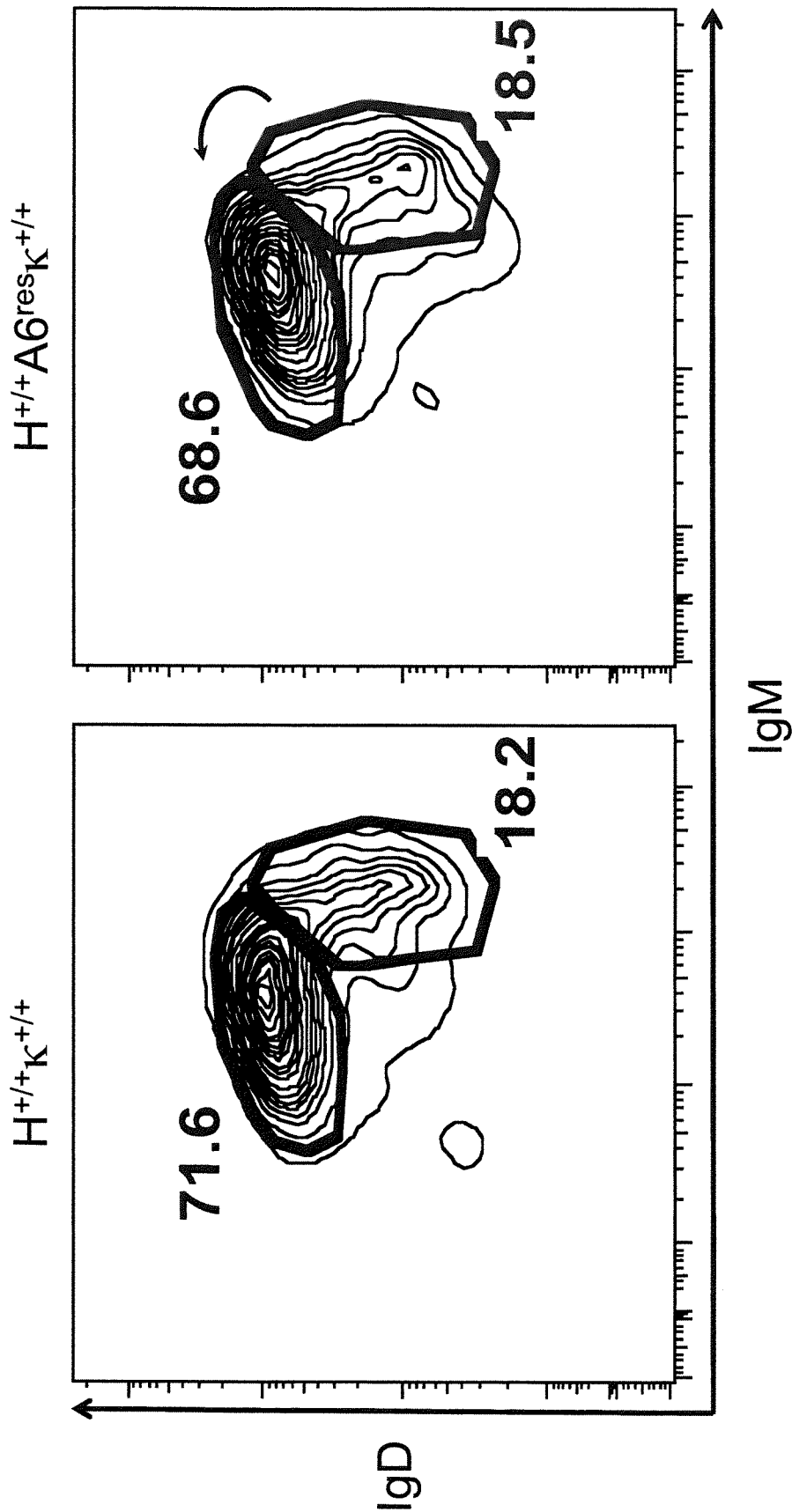


FIG. 18A

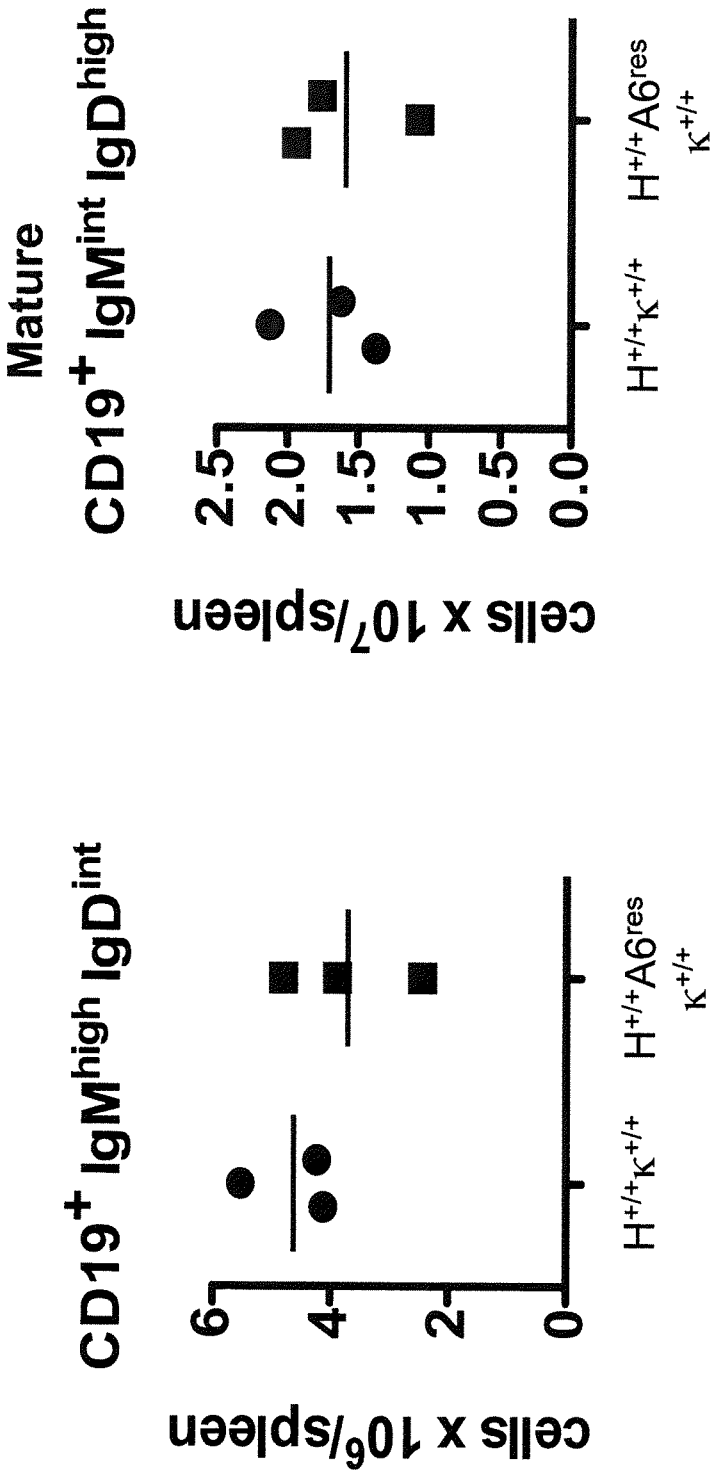


FIG. 18B

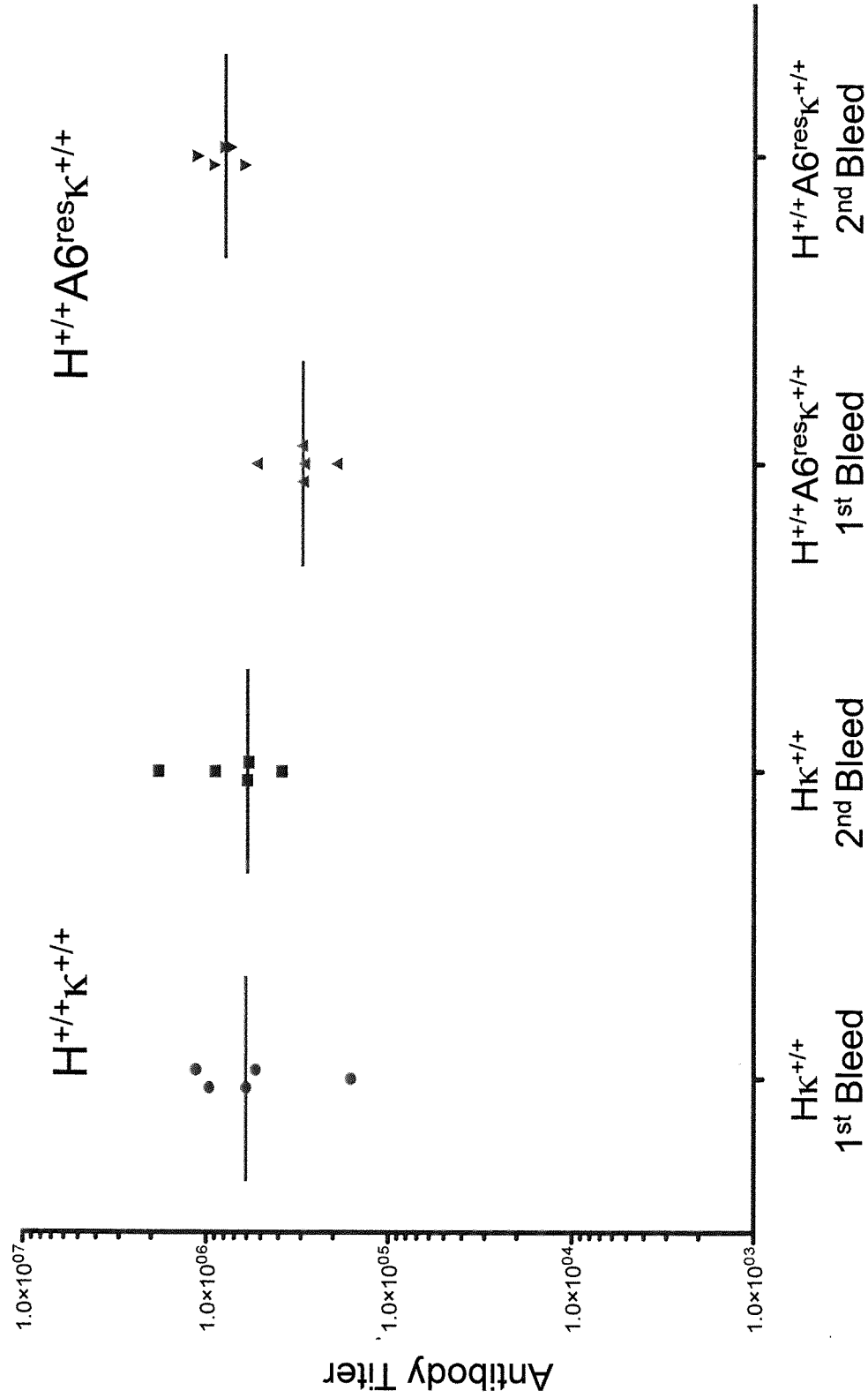


FIG. 19

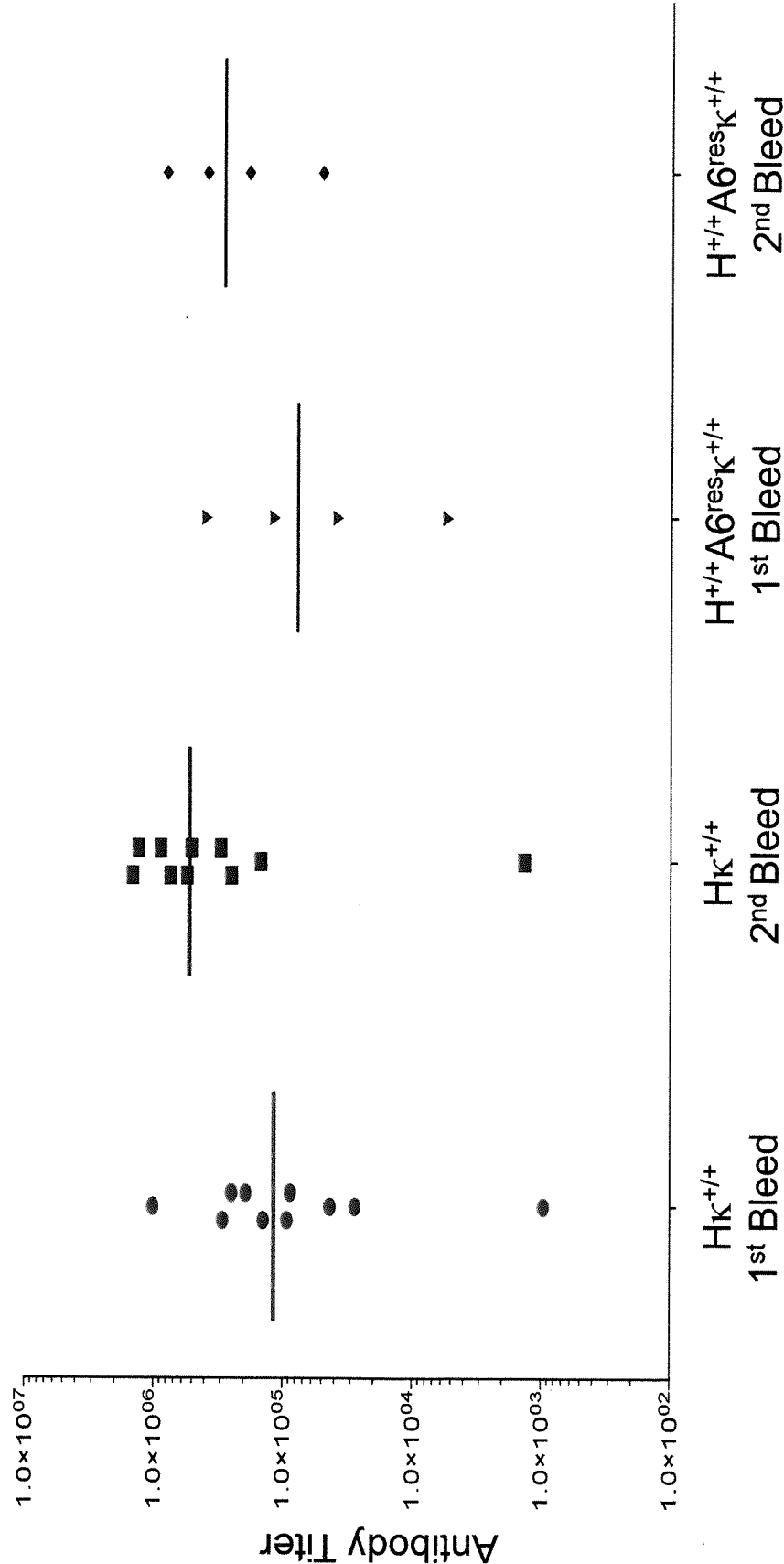


FIG. 20

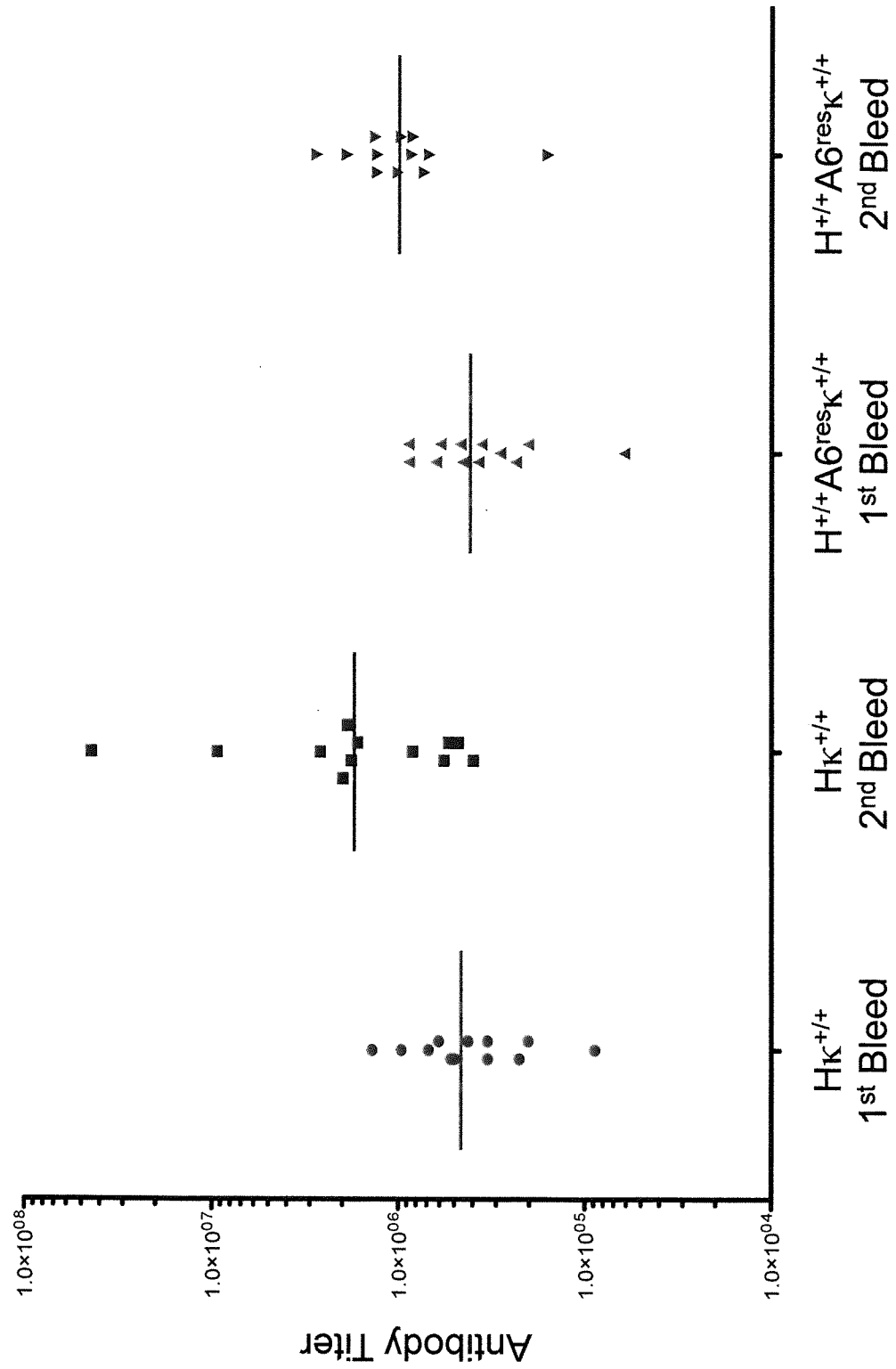


FIG. 21

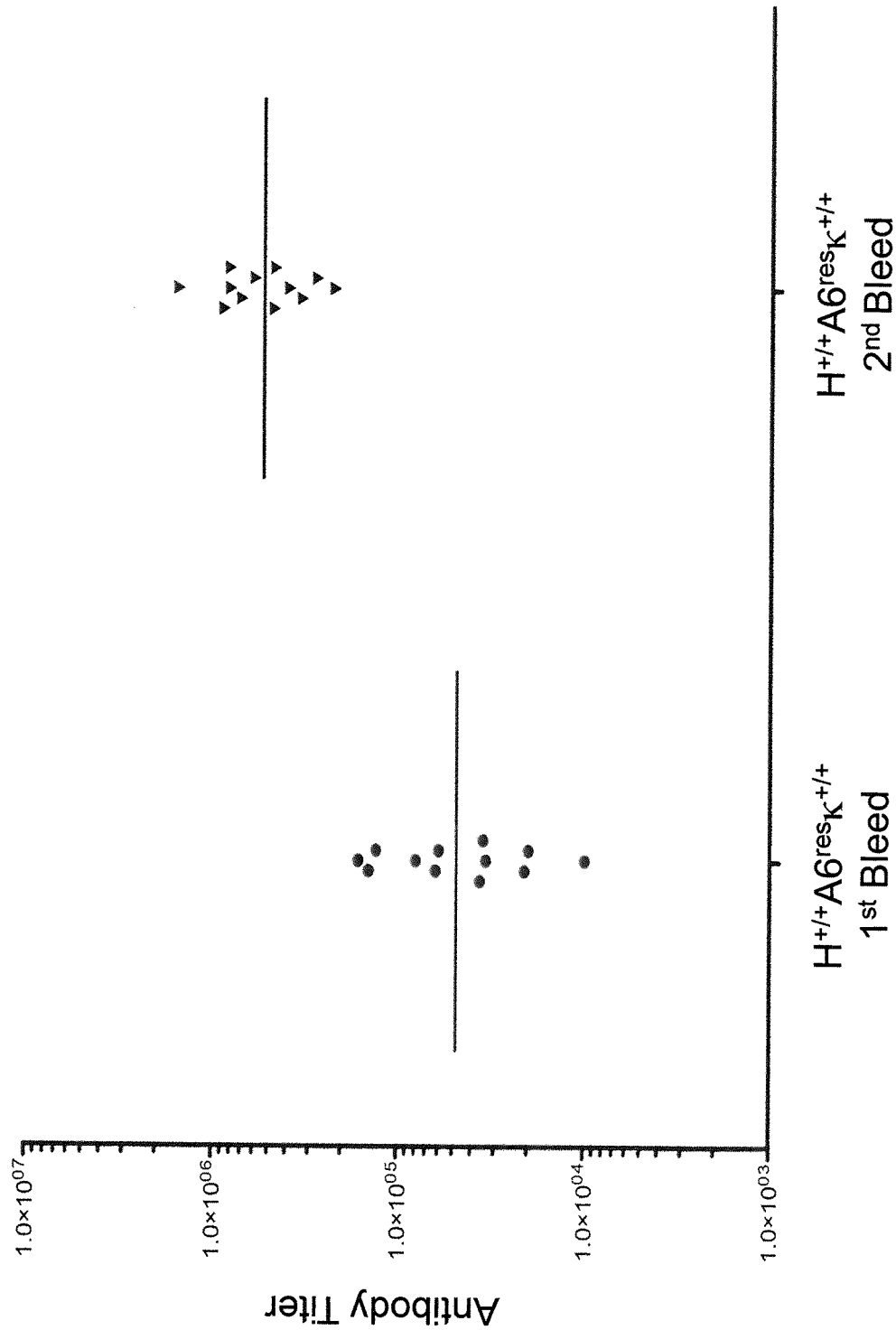


FIG. 22