

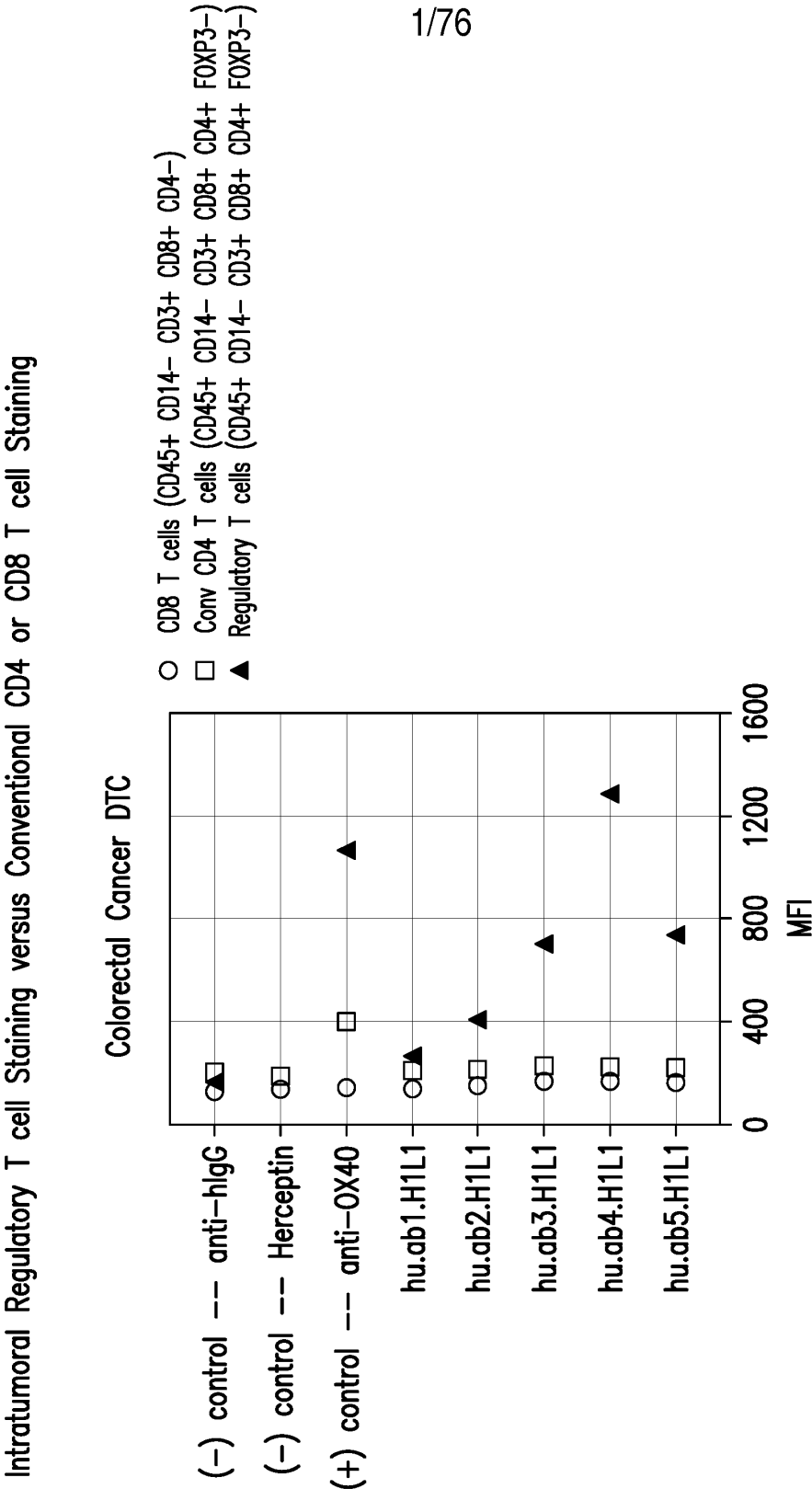


FIG. 1

NK-mediated Antibody Dependent Cellular Cytotoxicity (ADCC) Mechanism of Action

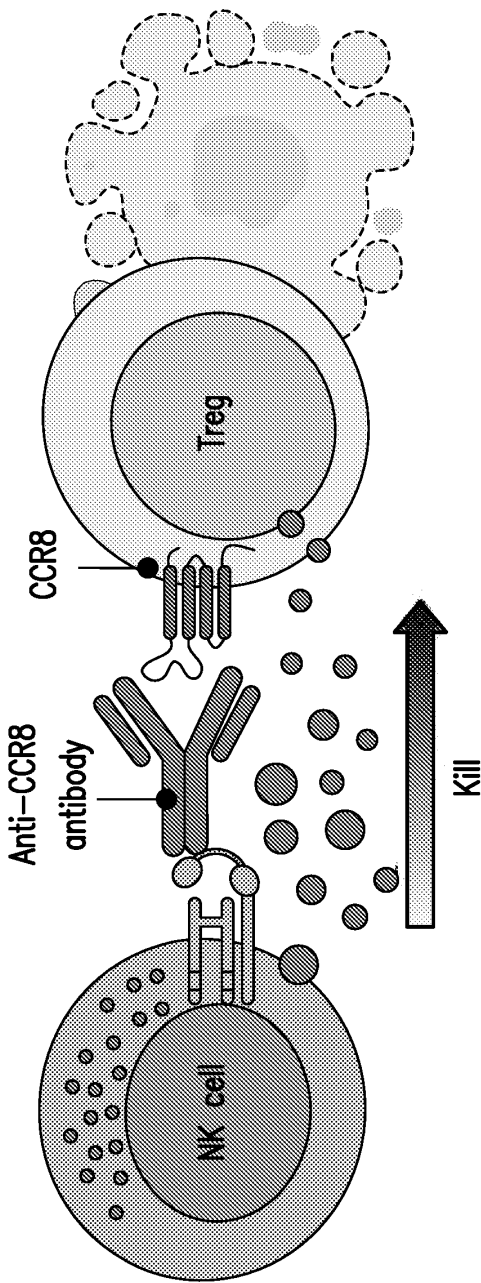


FIG. 2A

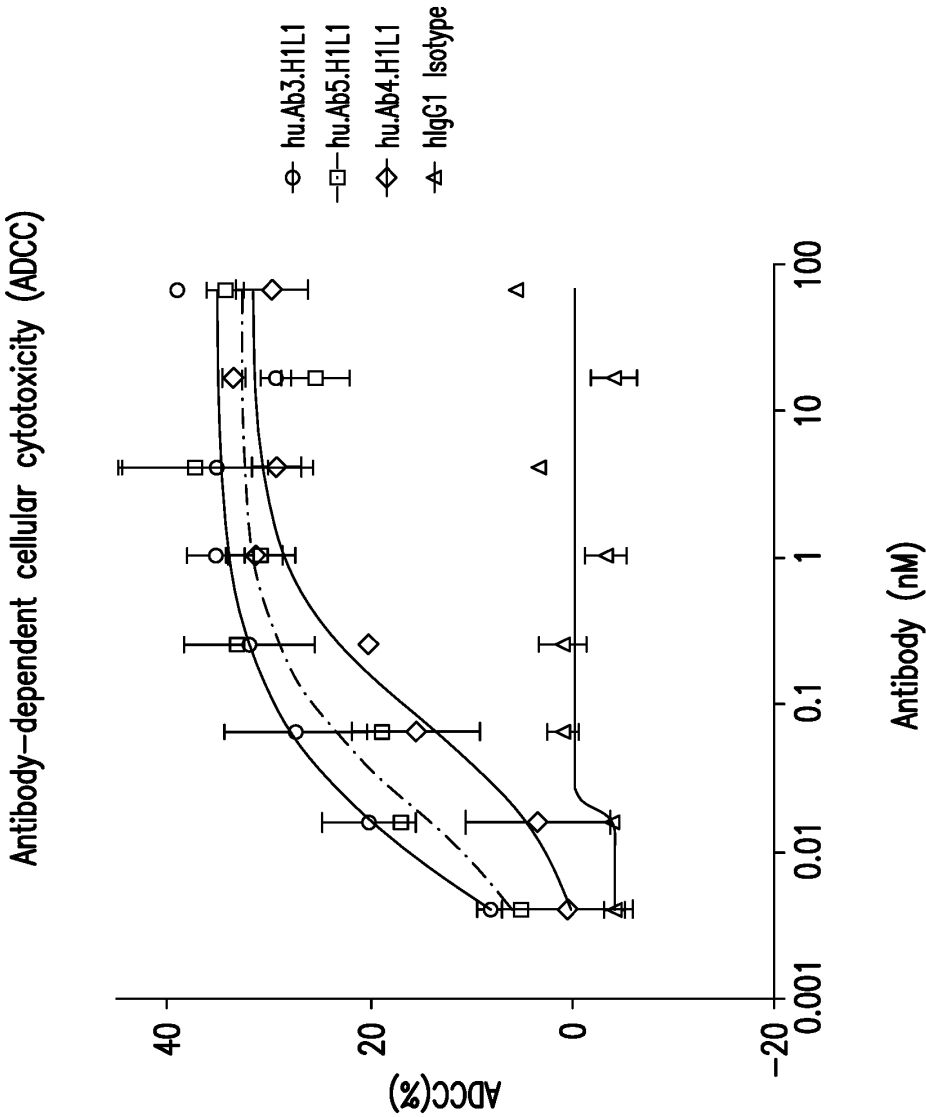


FIG. 2B

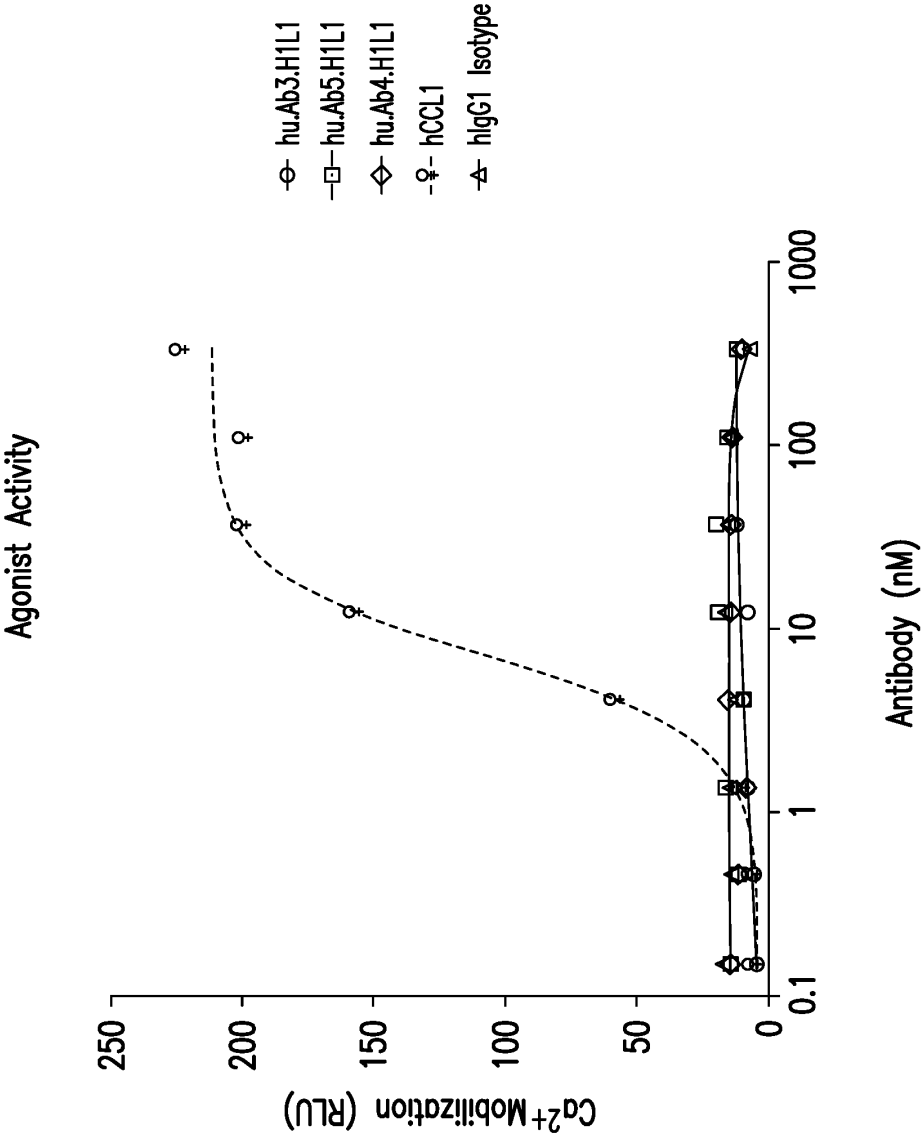


FIG. 3A

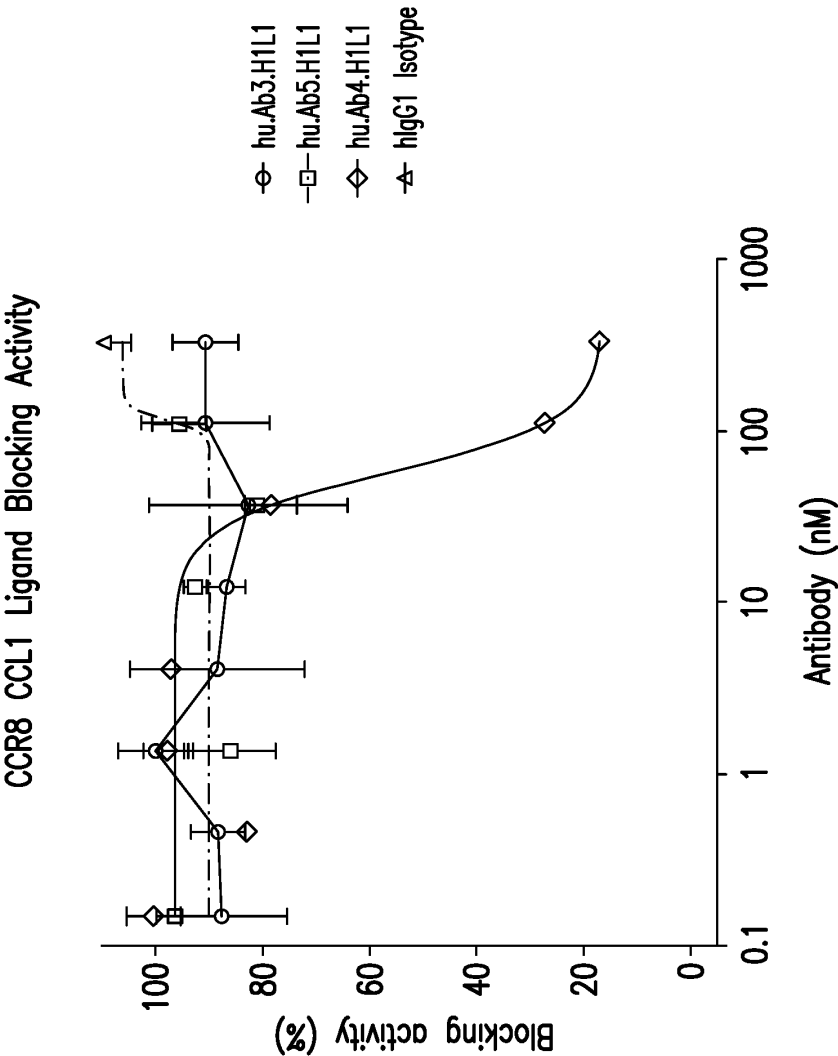


FIG. 3B

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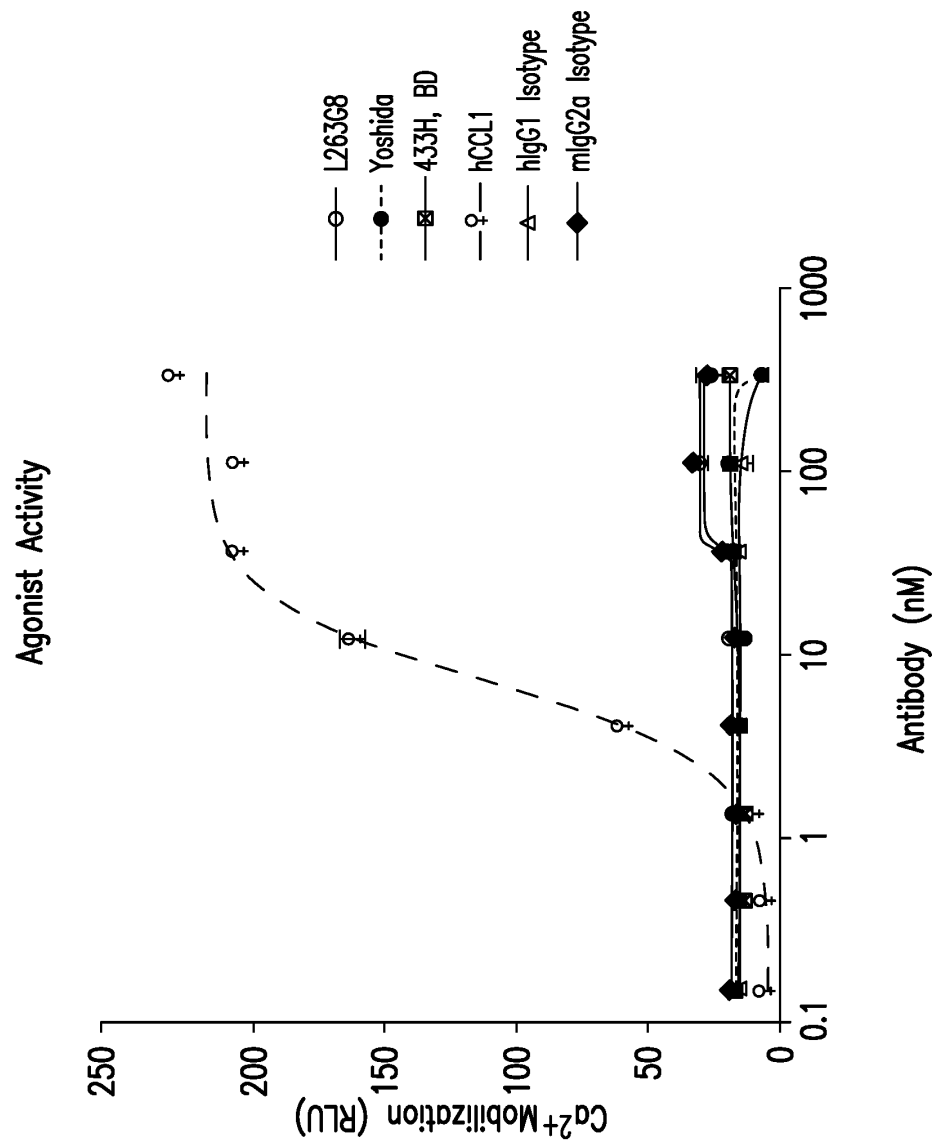


FIG. 3C

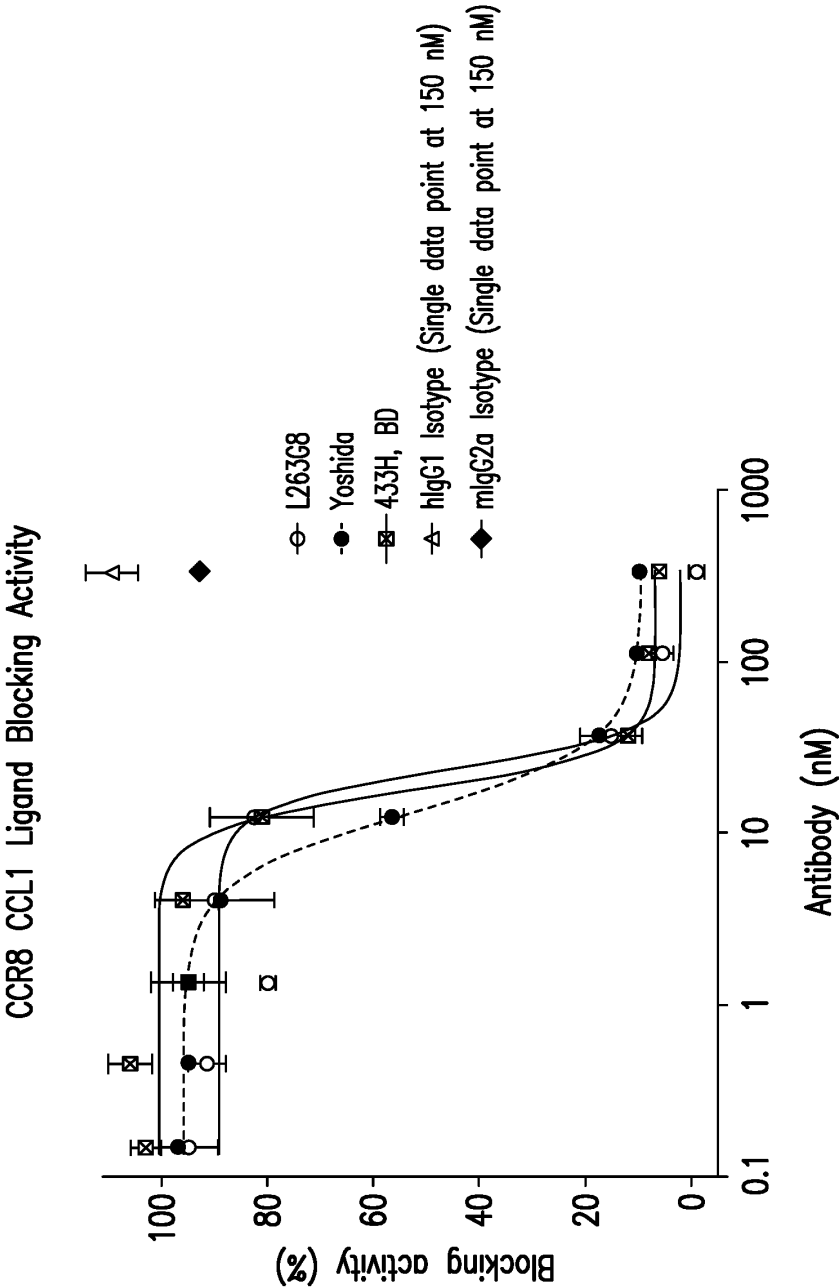
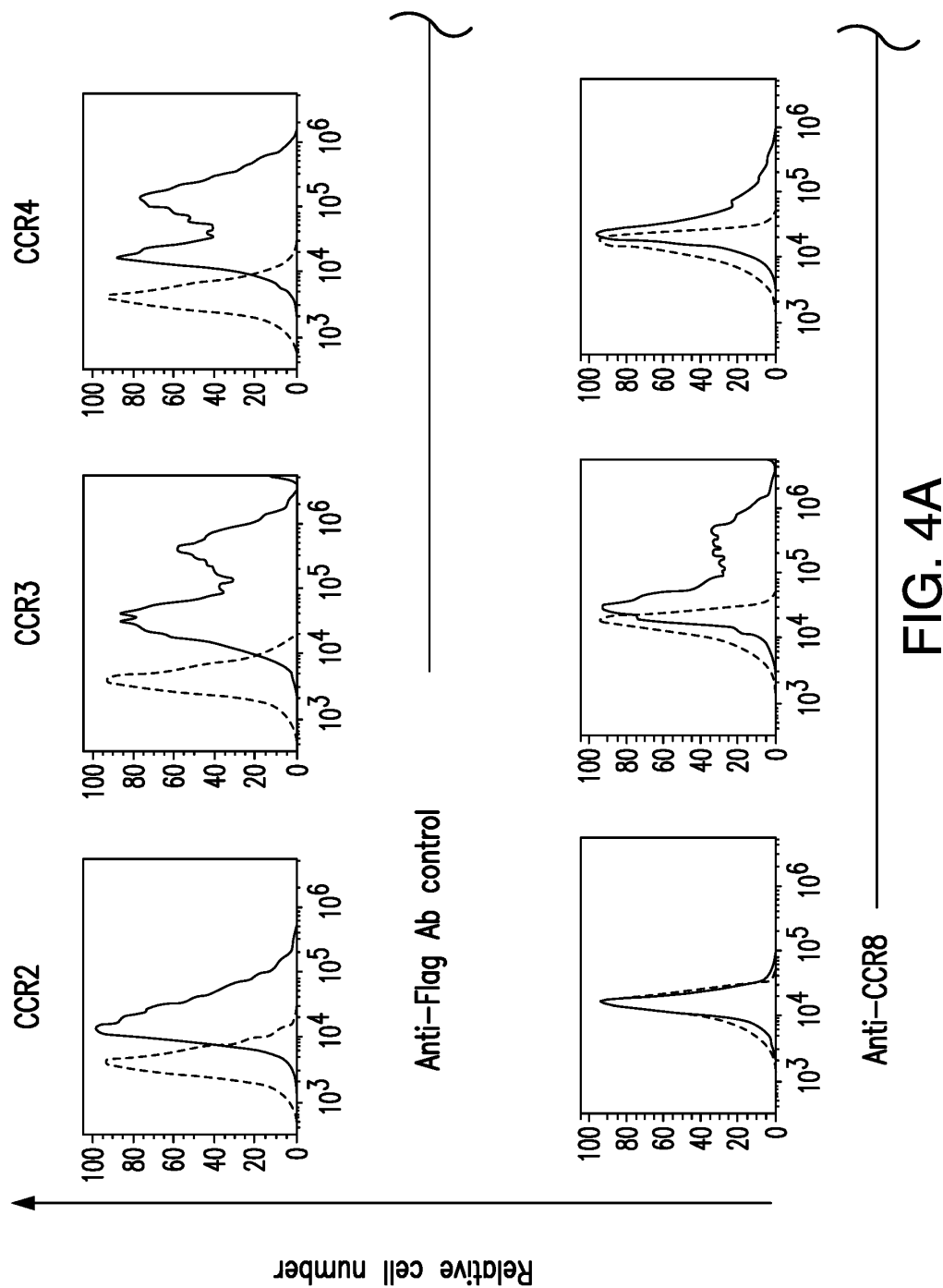


FIG. 3D



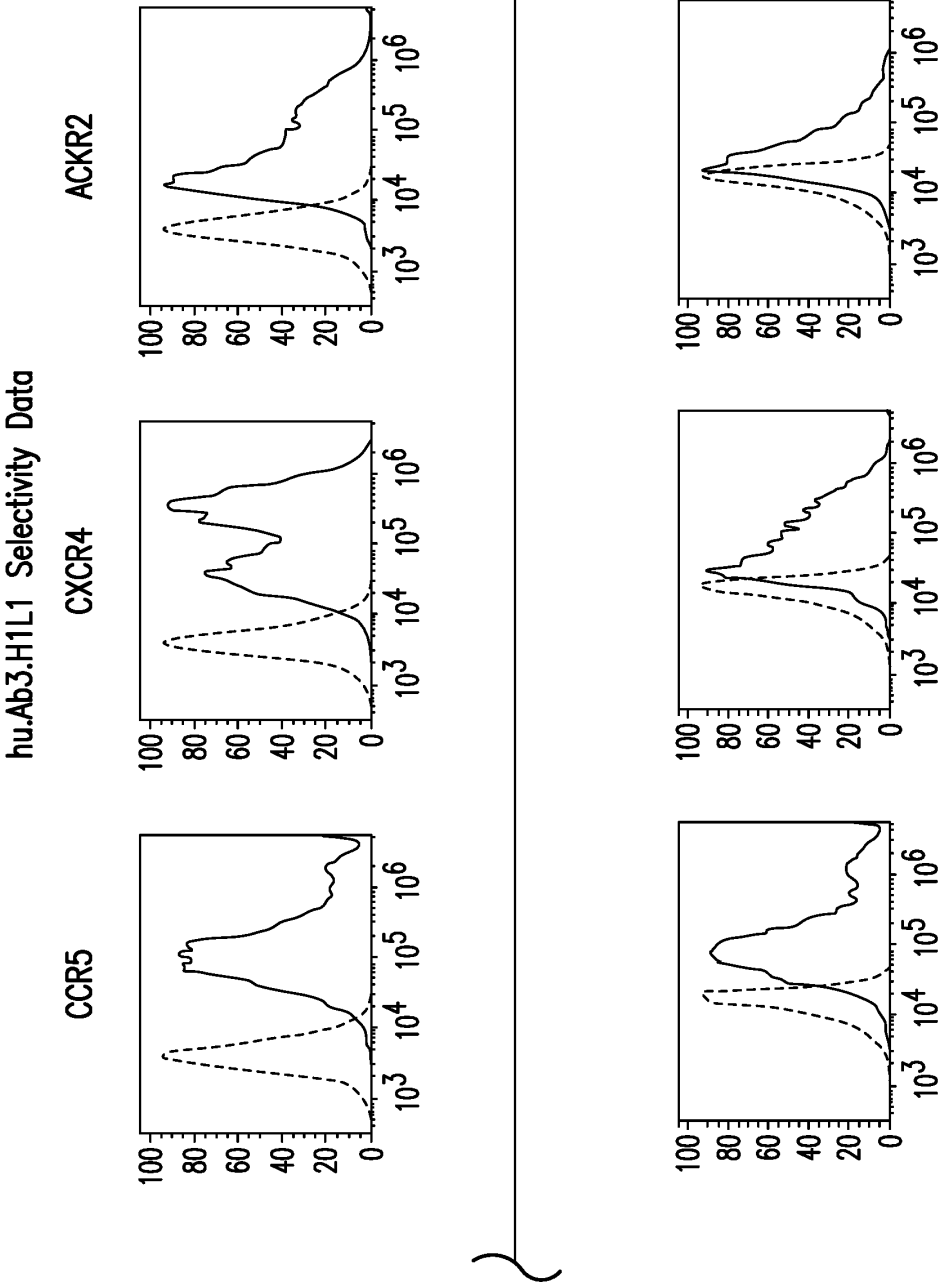


FIG. 4A Continued

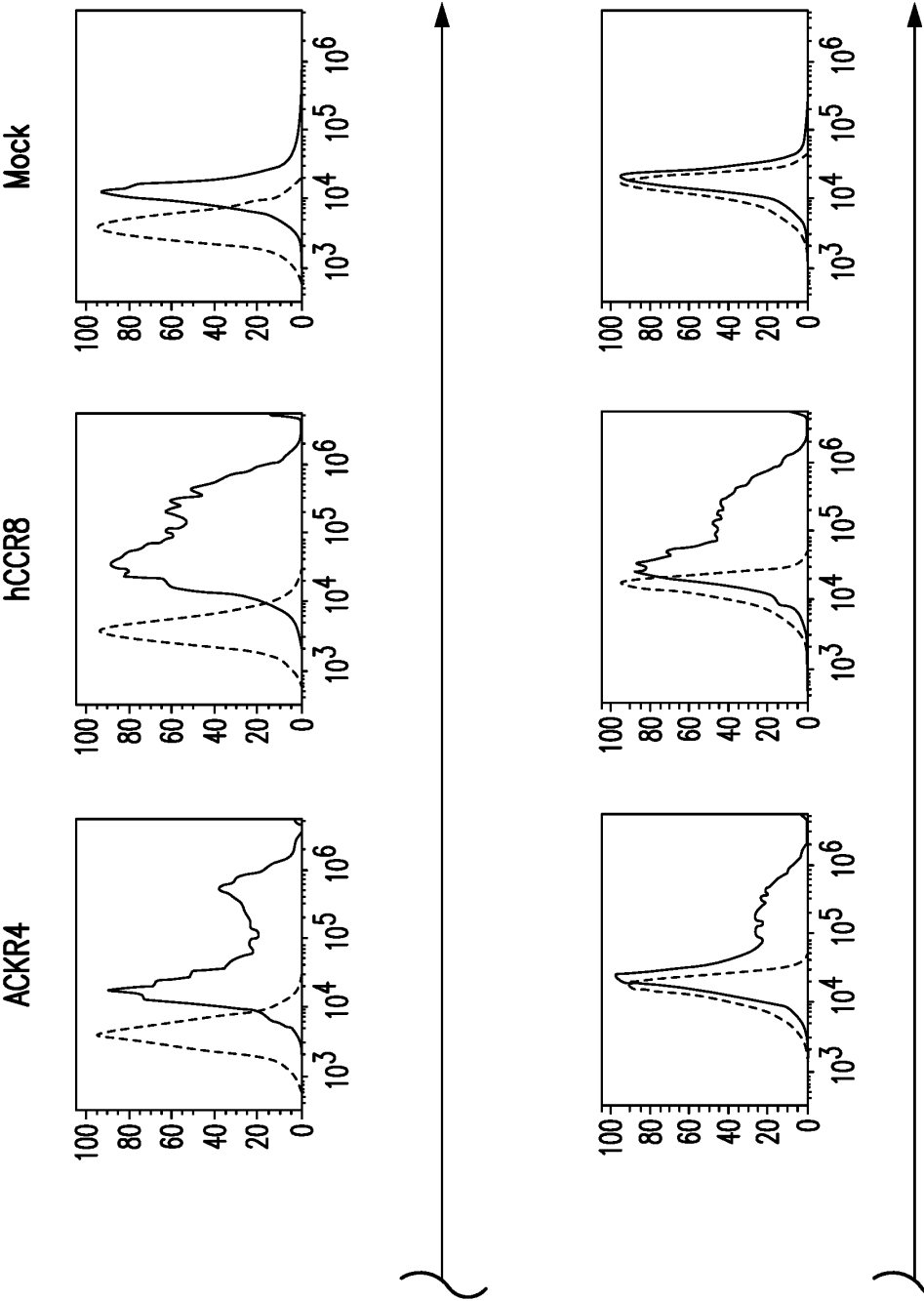
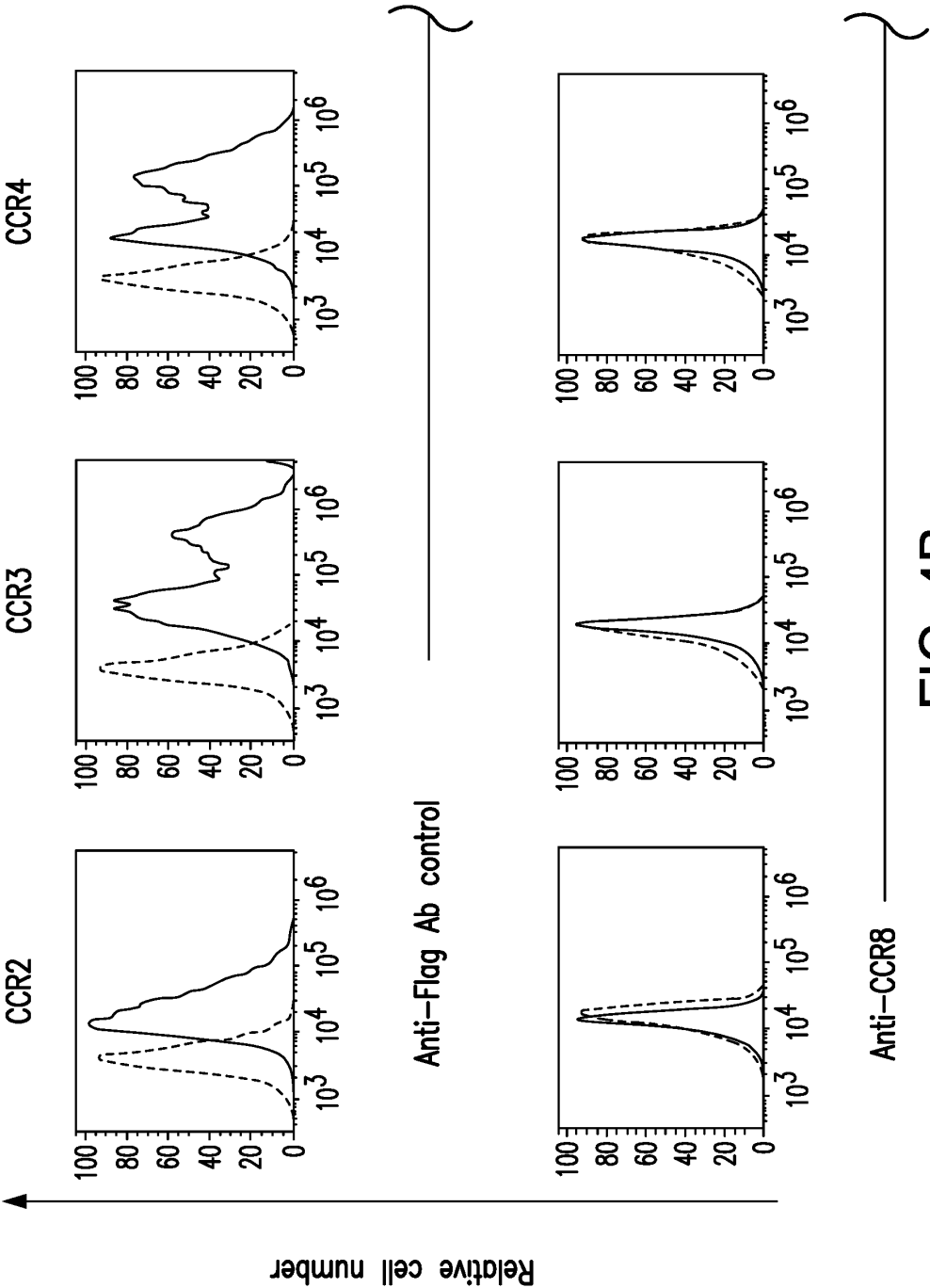


FIG. 4A Continued-2



hu.Ab4.H1L1 Selectivity Data

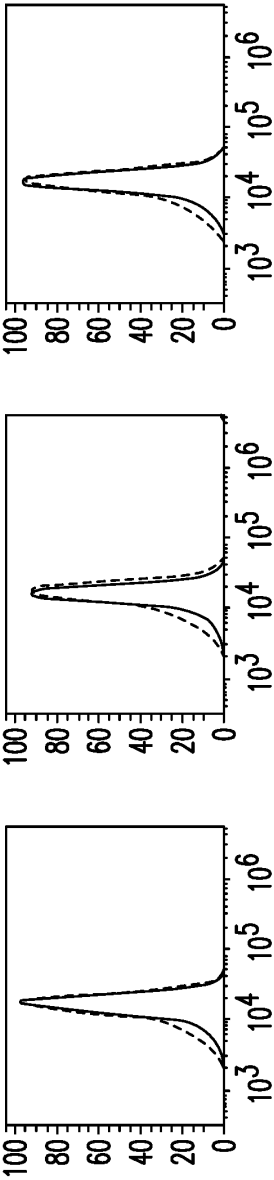
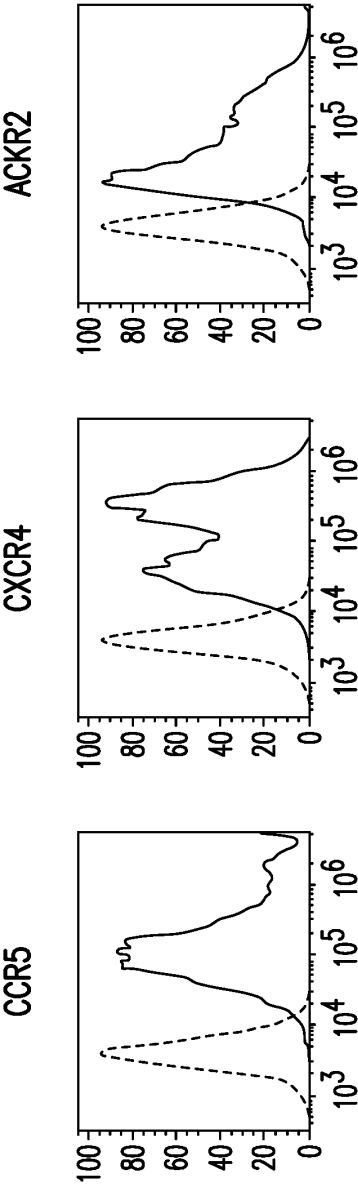


FIG. 4B Continued

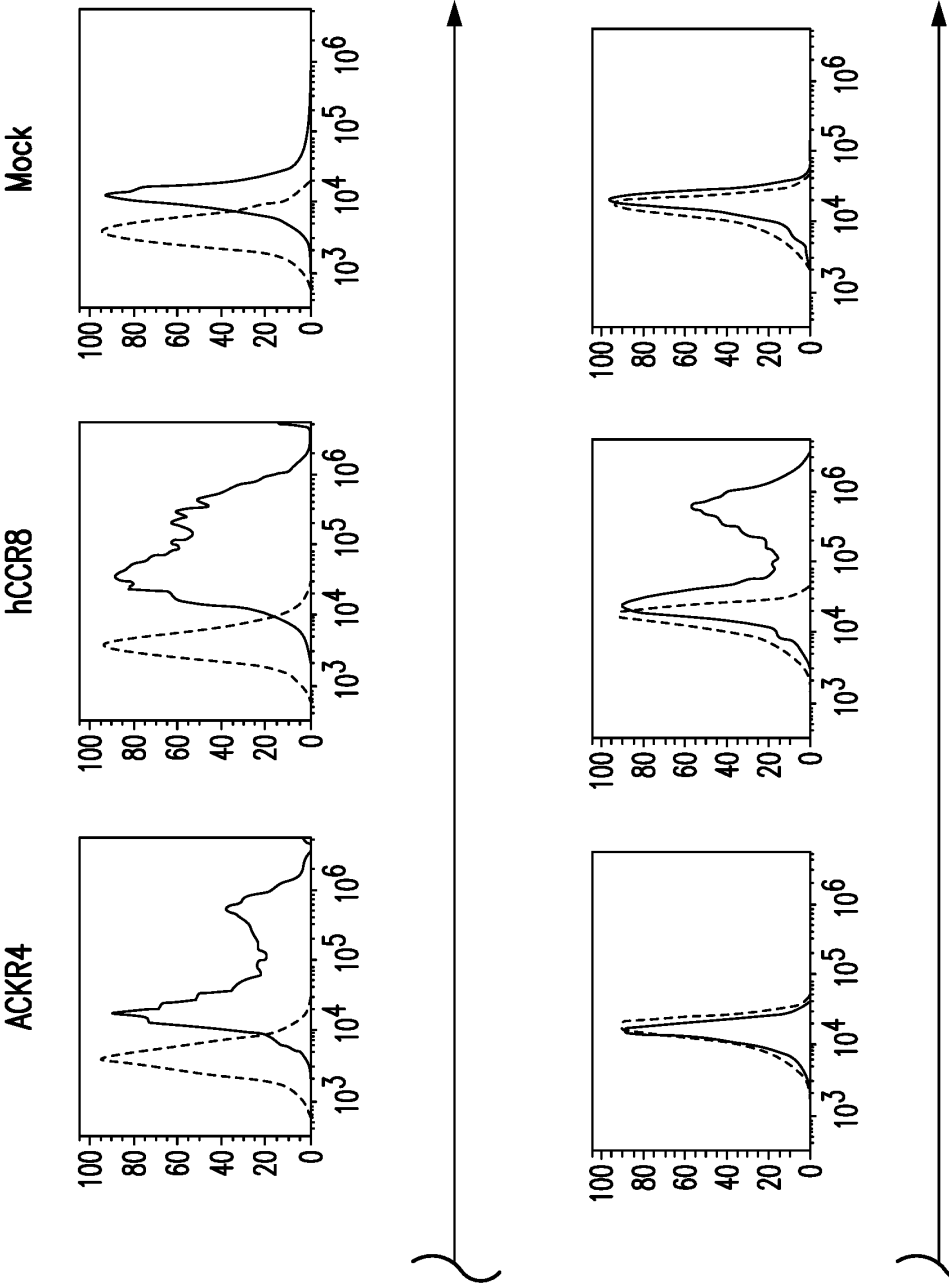
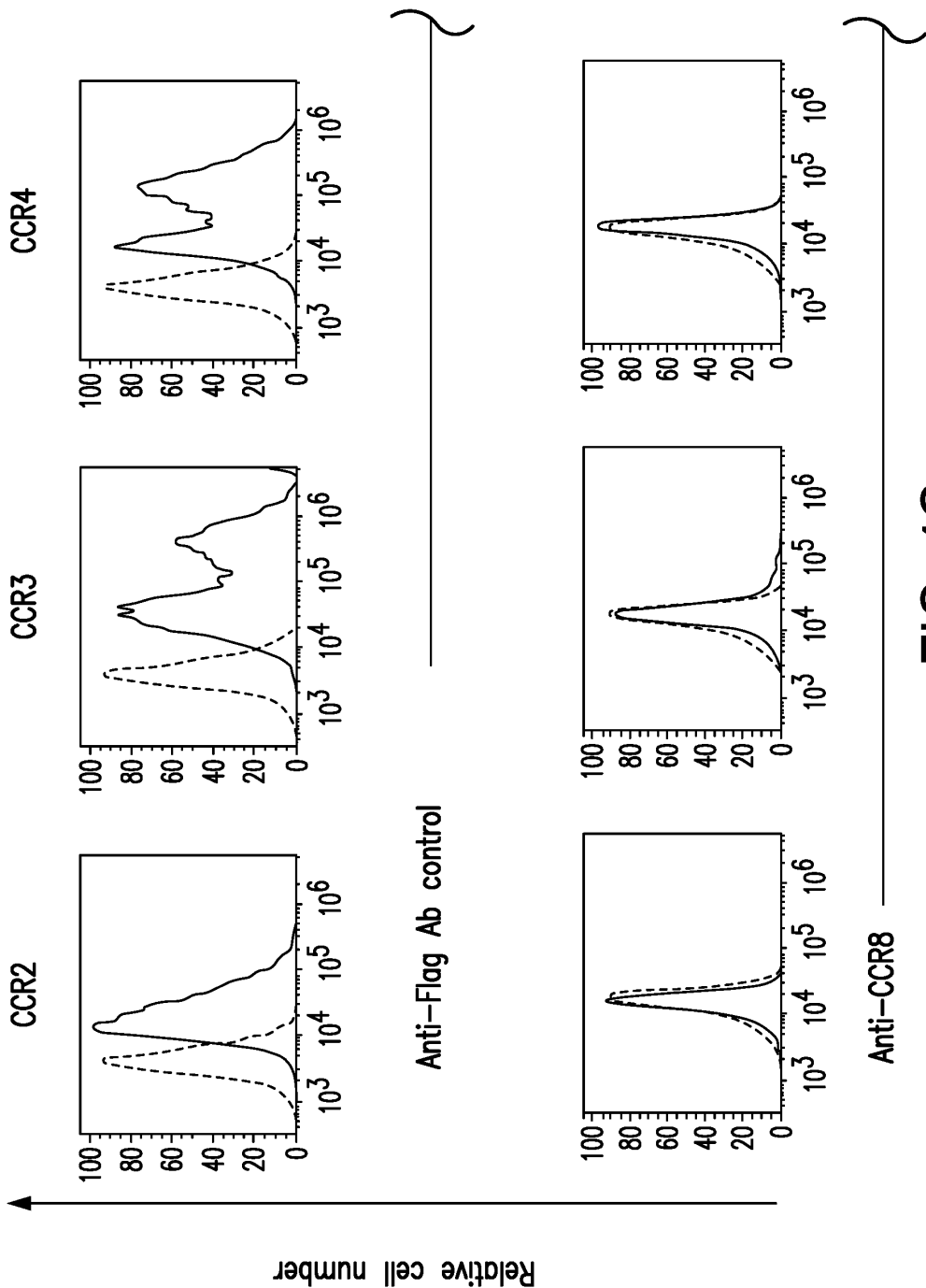


FIG. 4B Continued-2



hu.Ab5.H1L1 Selectivity Data

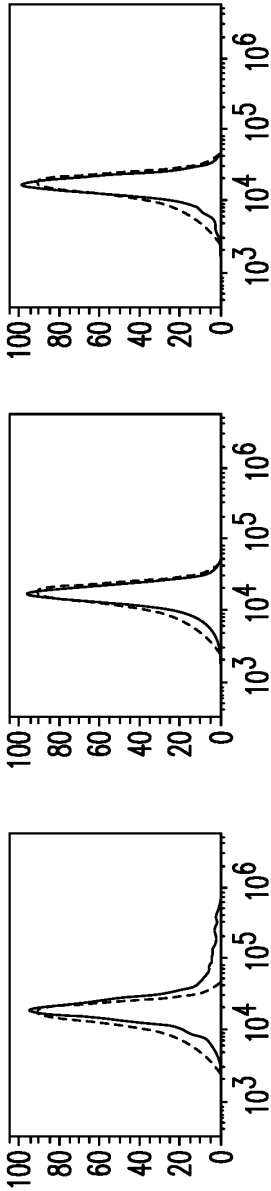
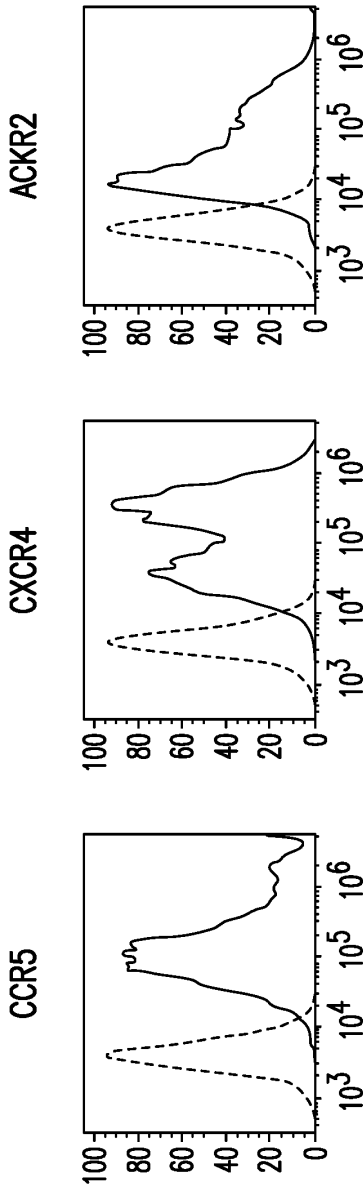


FIG. 4C Continued

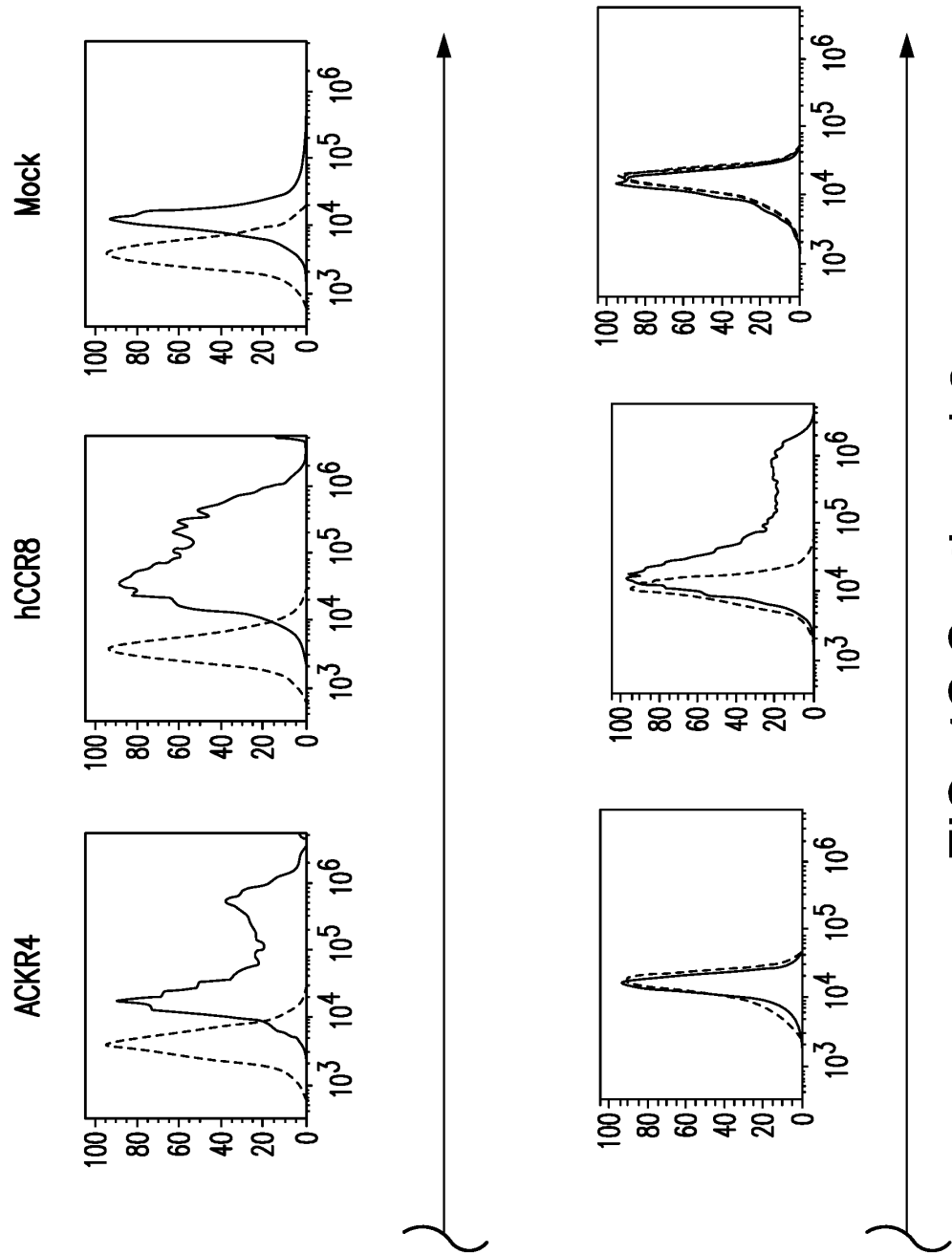
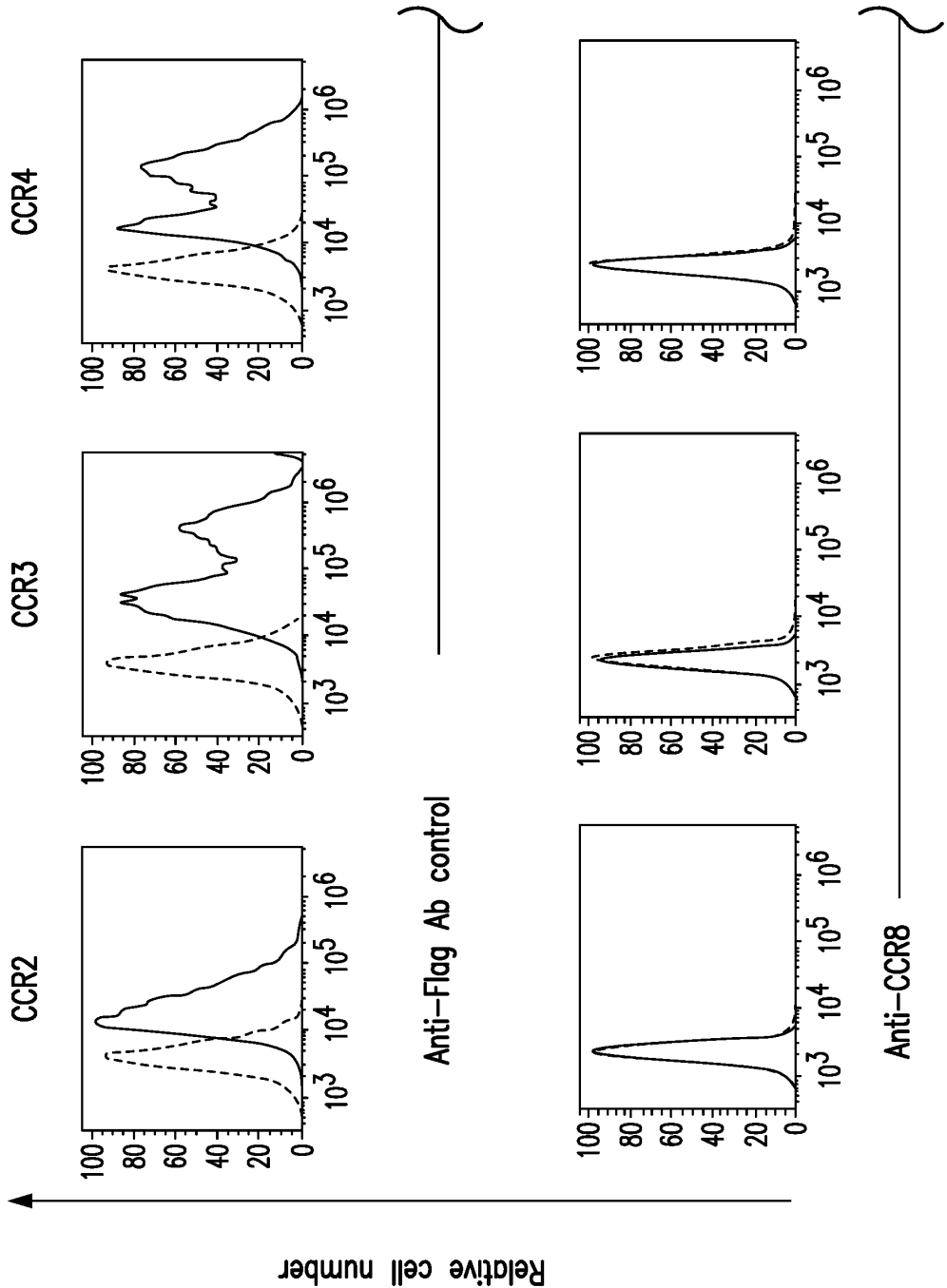


FIG. 4C Continued-2



433H (BD Biosciences) Ab Selectivity Data

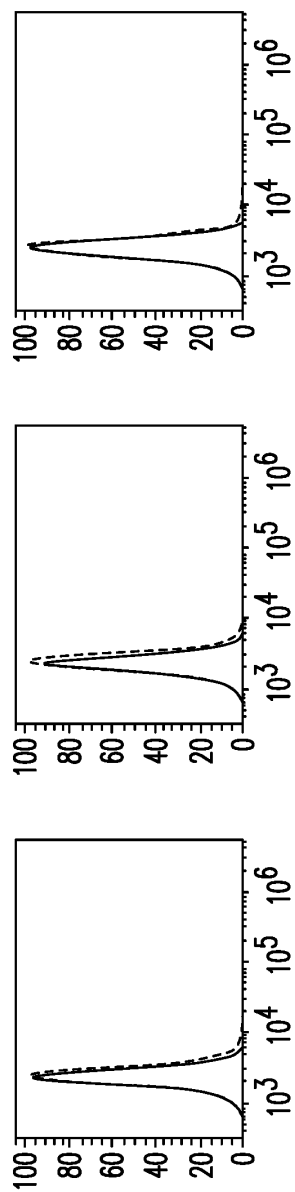
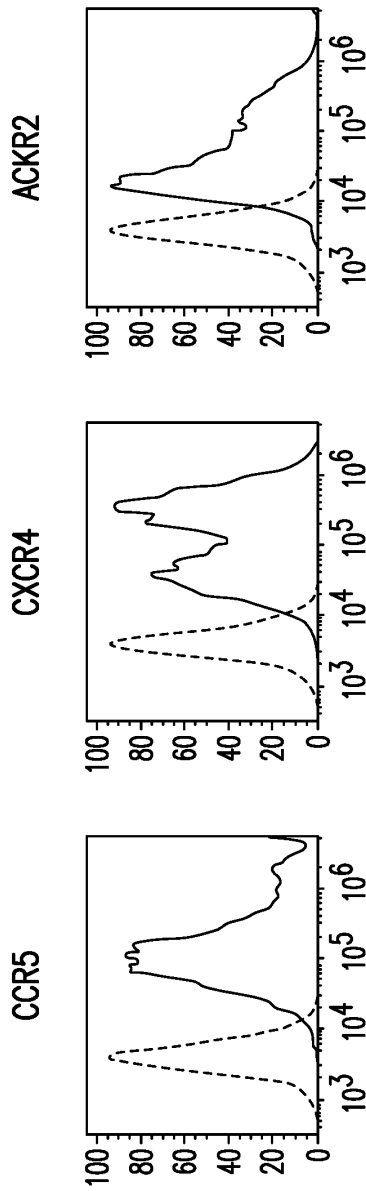


FIG. 4D Continued

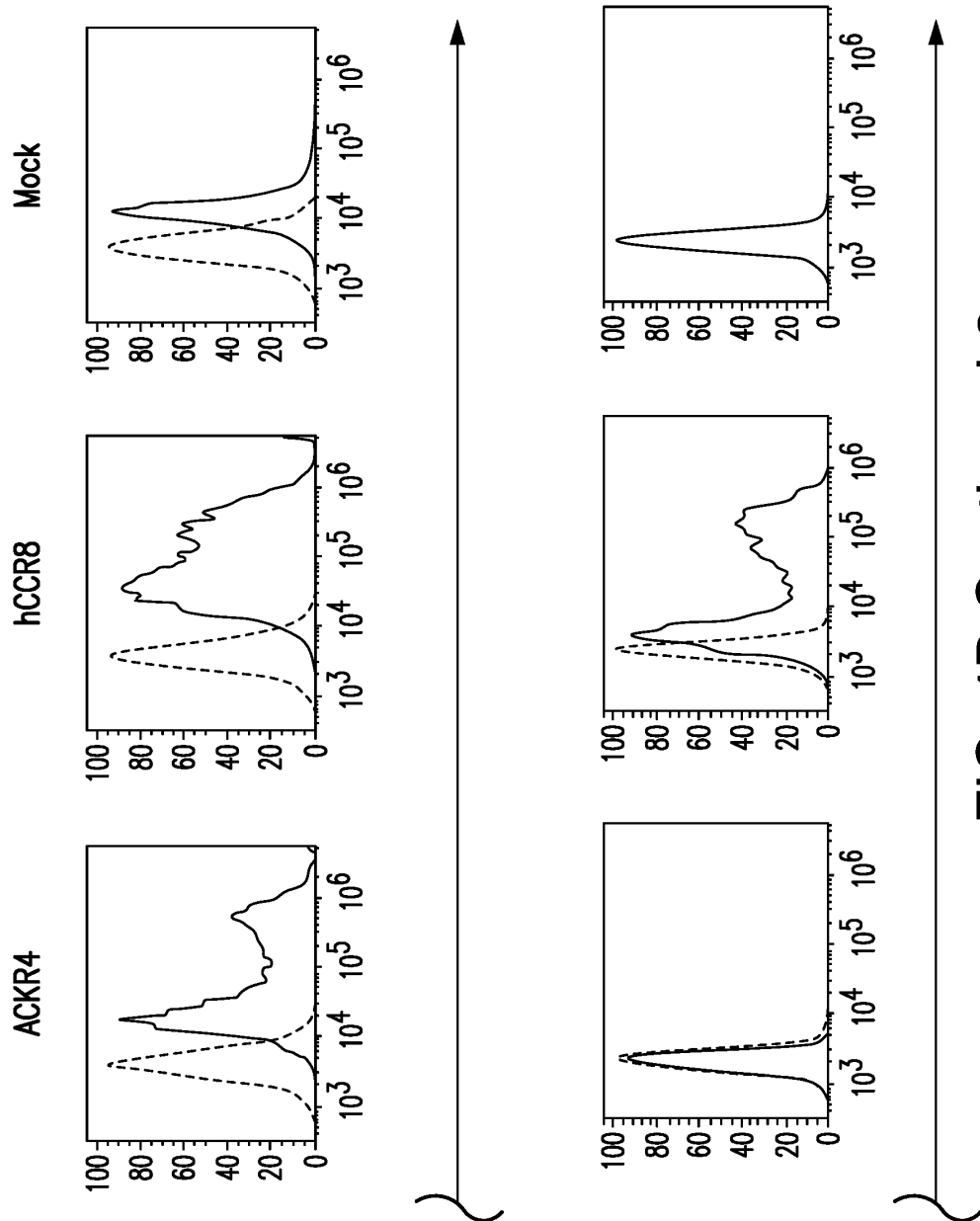
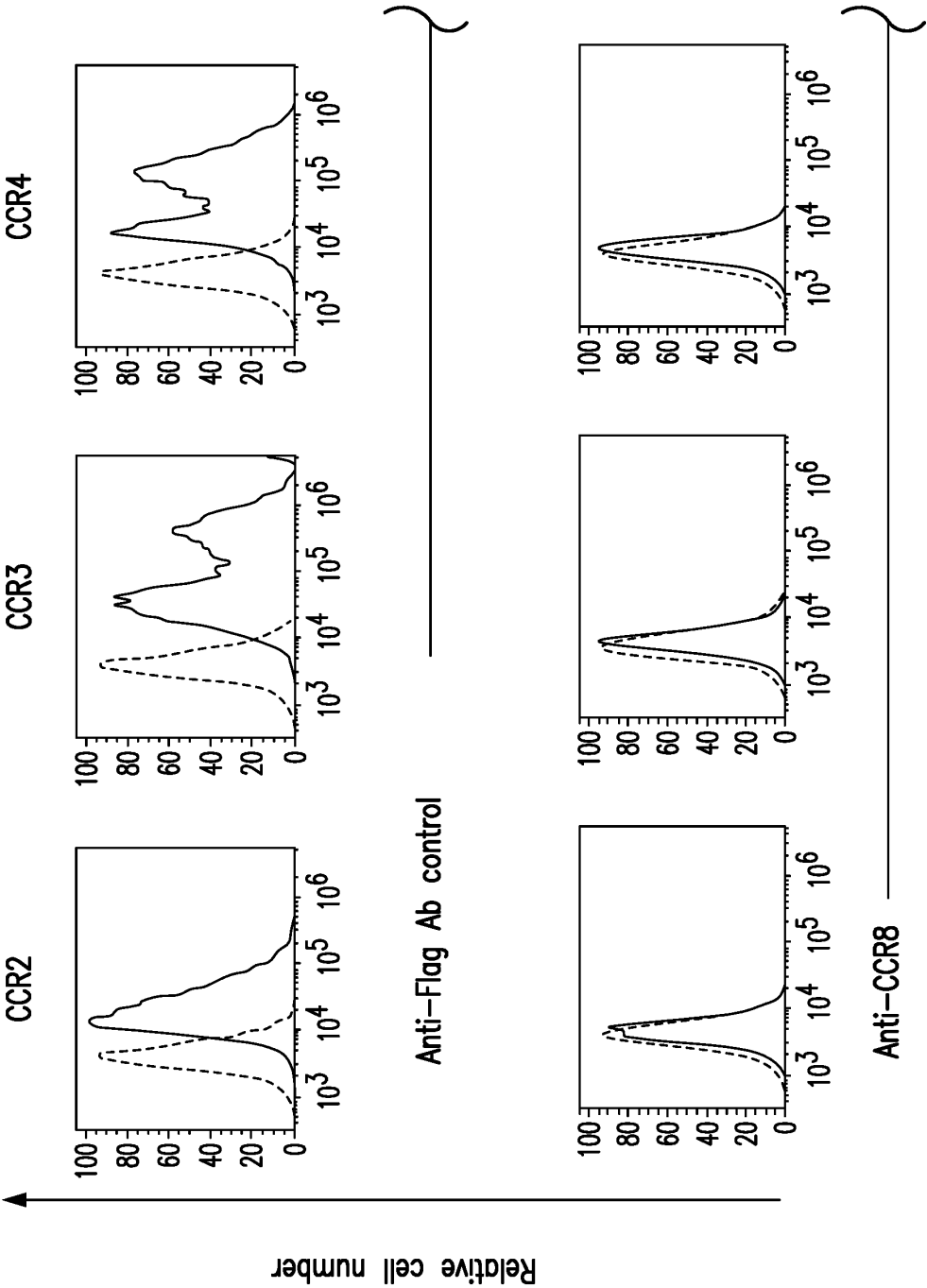
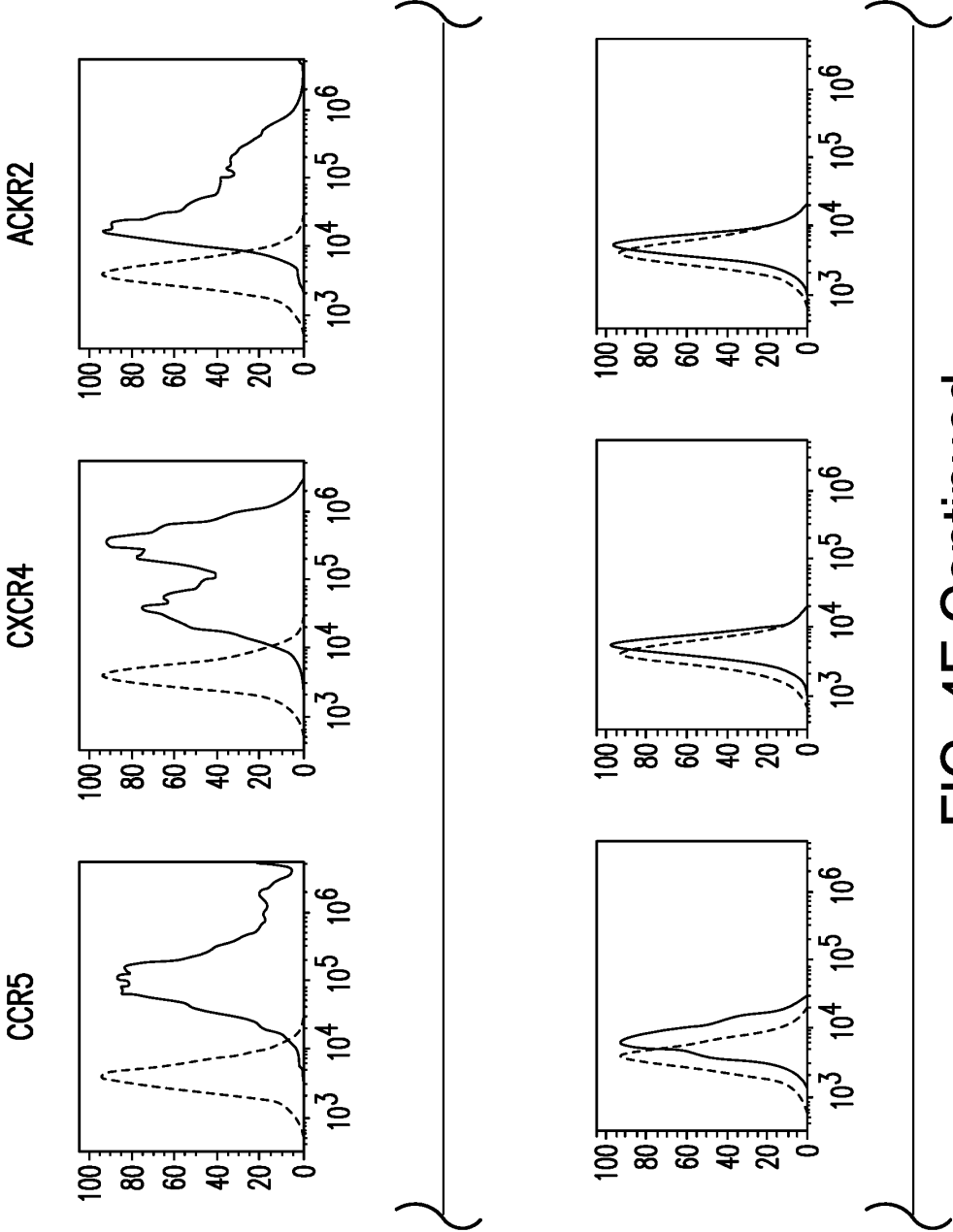


FIG. 4D Continued-2



L263G8 (Biolegend) Ab Selectivity Data



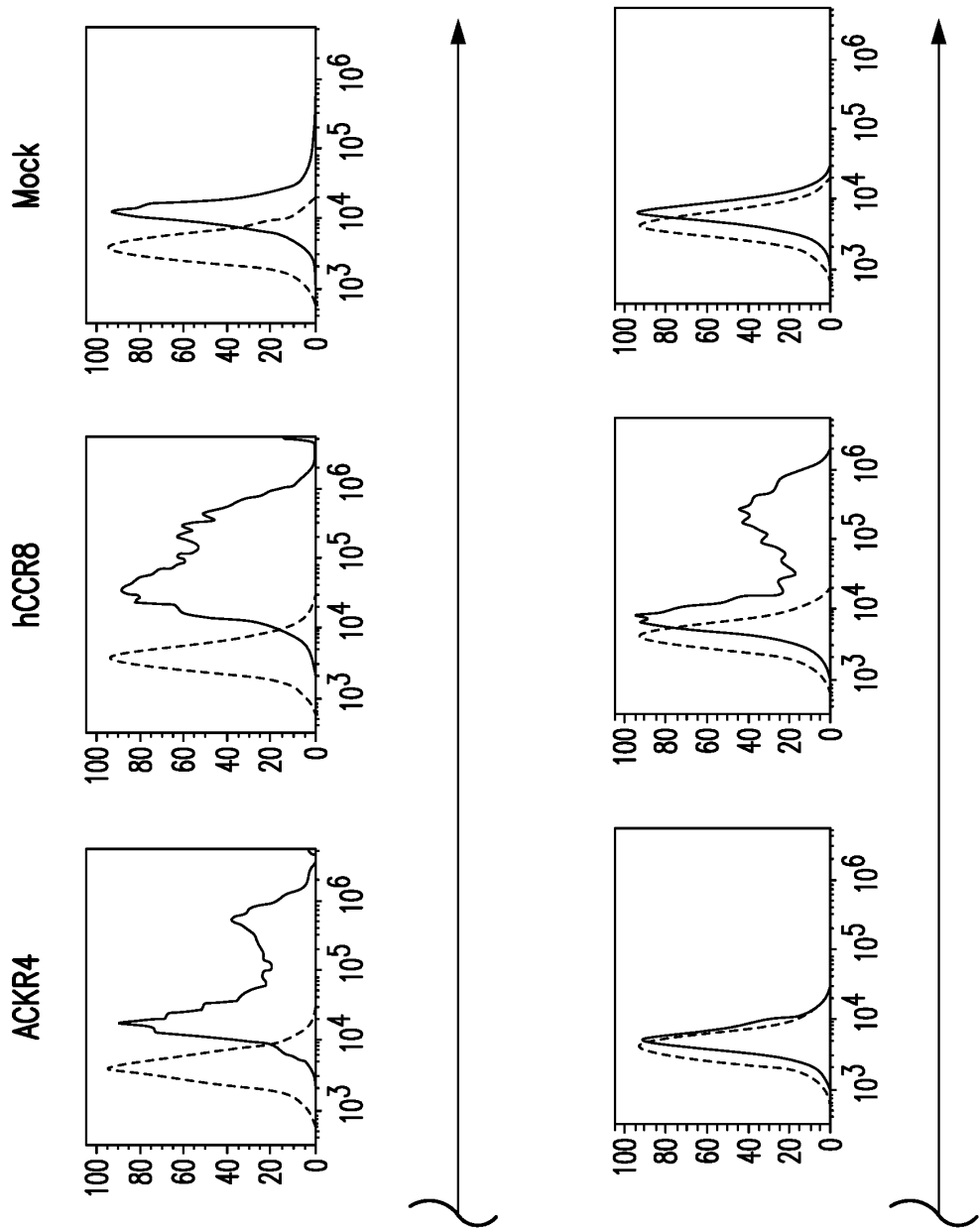


FIG. 4E Continued-2

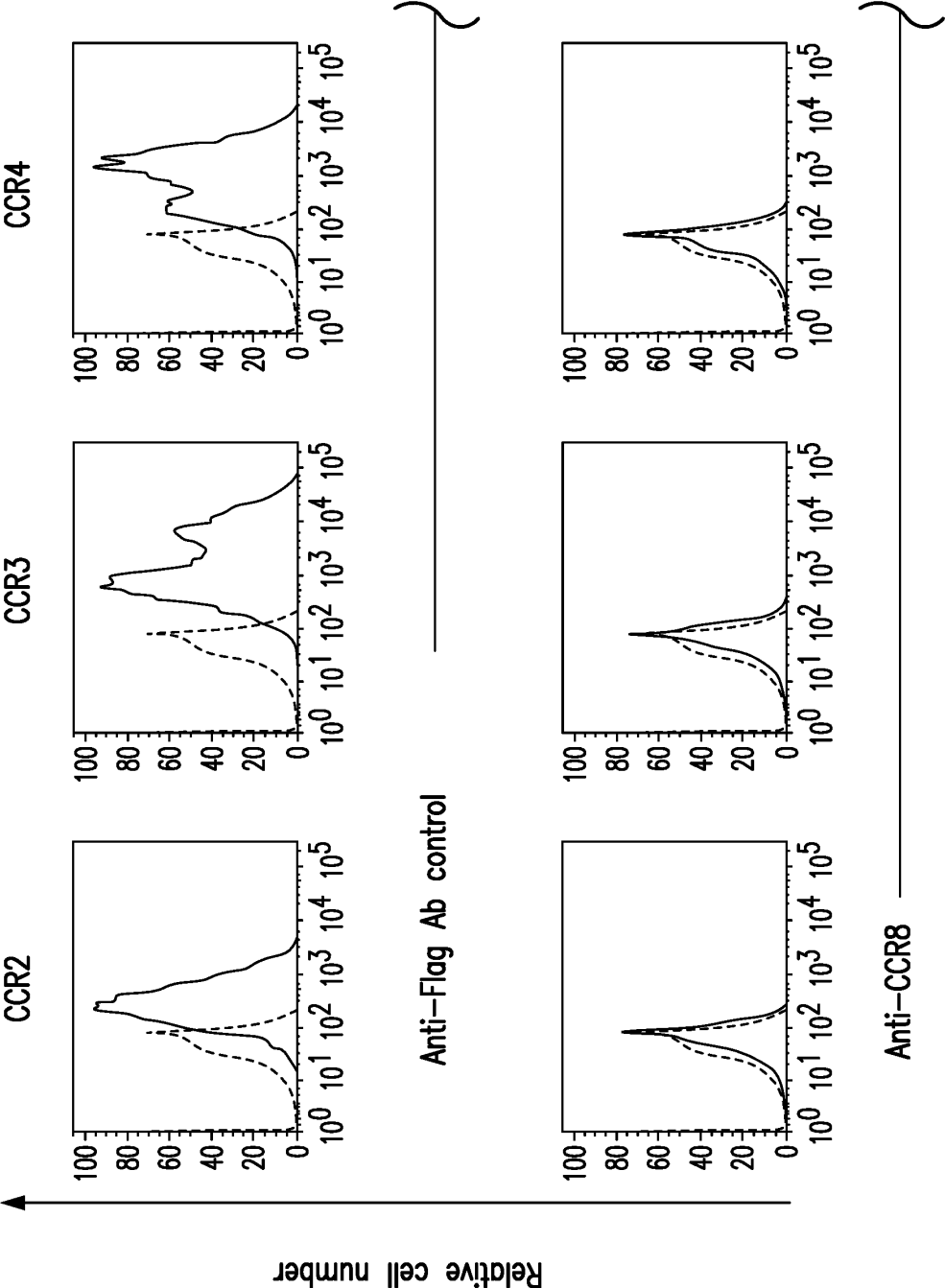


FIG. 4F

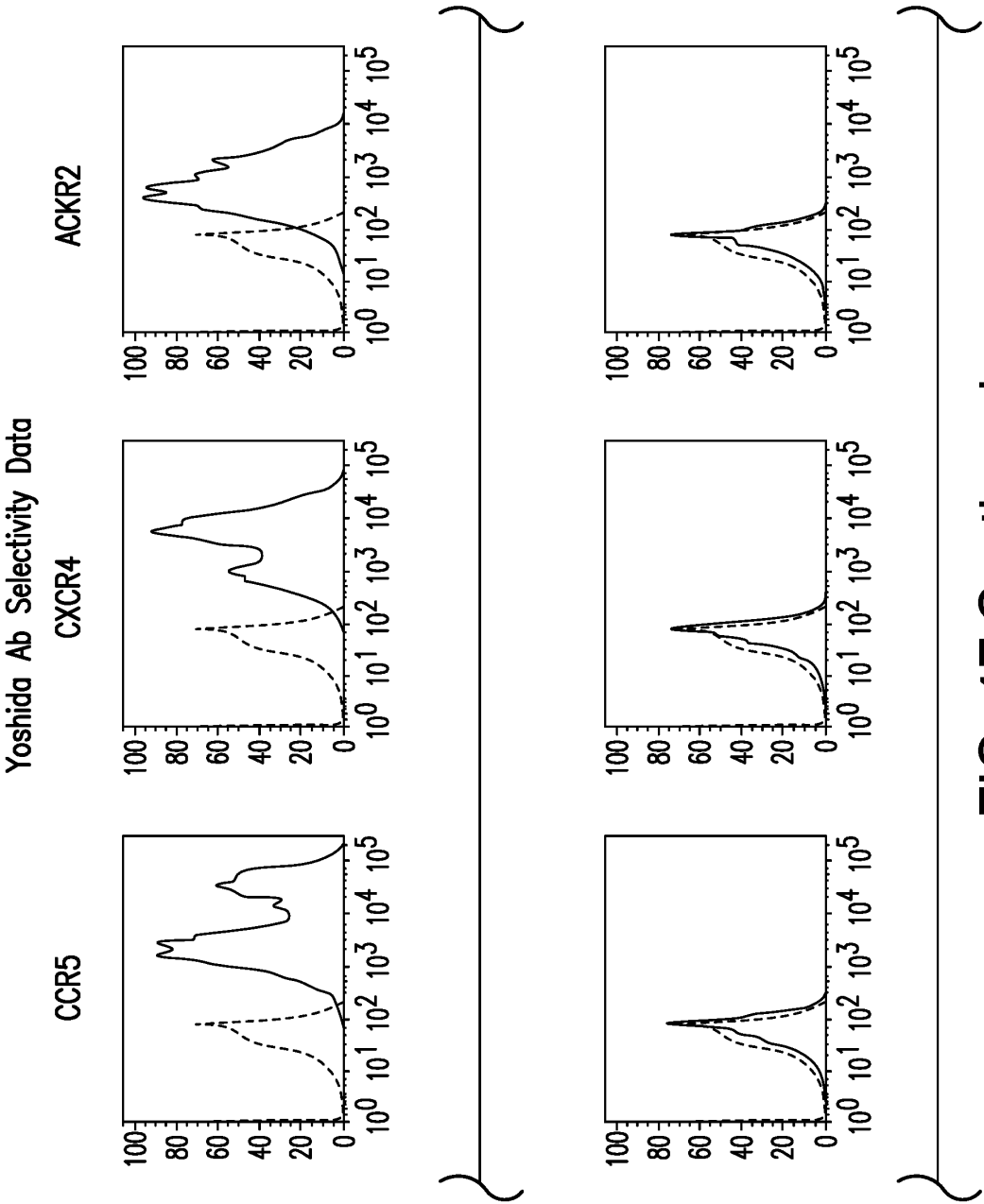


FIG. 4F Continued

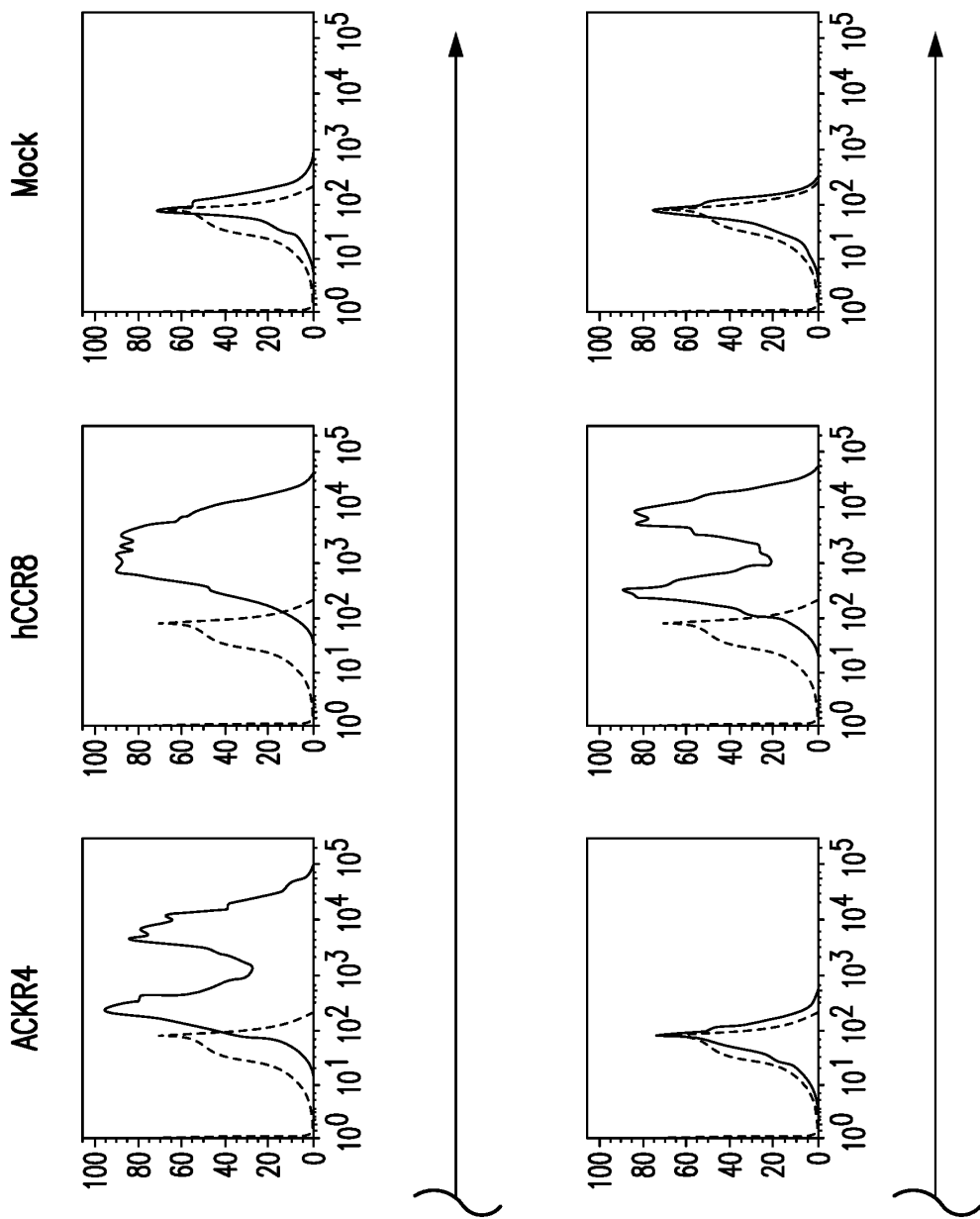


FIG. 4F Continued-2

Light Chain Variable Region (Ab4)																																										
CDR L1-Contact										CDR L1-Choithia										CDR L1-Kabat																						
Kabat number																																										
rb.Ab4 (SEQ ID NO: 9)																																										
hu.Ab4.L1 (SEQ ID NO: 22)																																										
hu.Ab4.L2 (SEQ ID NO: 23)																																										
hu.Ab4.L3 (SEQ ID NO: 24)																																										
hu.Ab4.L4 (SEQ ID NO: 25)																																										
1	A	Y	D	M	T	Q	T	P	A	S	V	E	V	A	V	G	G	T	V	T	I	K	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	Q
2	D	Y	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	K
3	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	K
4	D	Y	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	K
5	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	K
6	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	Q	S	I	S	S	Y	L	S	W	Y	Q	Q	K	P	G	K

Kabat number	CDR L2-Contact																																									
	CDR L2-Choithia																																									
	CDR L2-Kabat																																									
rb.Ab4 (SEQ ID NO: 9)	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84
hu.Ab4.L1 (SEQ ID NO: 22)	R	P	E	L	L	I	Y	K	A	S	T	L	A	S	G	V	S	S	R	F	K	G	S	G	S	G	T	D	F	T	L	T	I	S	D	L	E	C	A	D	A	A
hu.Ab4.L2 (SEQ ID NO: 23)	R	P	K	L	L	I	Y	K	A	S	T	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	P	E	D	F	A
hu.Ab4.L3 (SEQ ID NO: 24)	A	P	K	L	L	I	Y	K	A	S	T	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	P	E	D	F	A
hu.Ab4.L4 (SEQ ID NO: 25)	A	P	K	L	L	I	Y	K	A	S	T	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	L	T	I	S	S	L	Q	P	E	D	F	A

CDR L3-Contact																											
CDR L3-Choithia																											
CDR L3-Kabat																											
Kabat number	85	86	87	88	89	90	91	92	93	94	95	95a	95b	95c	96	97	98	99	100	101	102	103	104	105	106	107	
rb.Ab4 (SEQ ID NO: 9)	T	Y	Y	C	Q	Q	Q	G	Y	T	S	S	N	I	D	N	I	F	G	G	G	T	E	V	V	V	K
hu.Ab4.L1 (SEQ ID NO: 22)	T	Y	Y	C	Q	Q	Q	G	Y	T	S	S	N	I	D	N	I	F	G	G	G	T	K	V	E	I	K
hu.Ab4.L2 (SEQ ID NO: 23)	T	Y	Y	C	Q	Q	Q	G	Y	T	S	S	N	I	D	N	I	F	G	G	G	T	K	V	E	I	K
hu.Ab4.L3 (SEQ ID NO: 24)	T	Y	Y	C	Q	Q	Q	G	Y	T	S	S	N	I	D	N	I	F	G	G	G	T	K	V	E	I	K
hu.Ab4.L4 (SEQ ID NO: 25)	T	Y	Y	C	Q	Q	Q	G	Y	T	S	S	N	I	D	N	I	F	G	G	G	T	K	V	E	I	K

FIG. 5A

FIG. 5A

Heavy Chain Variable Region (Ab4)		CDR H1-Contact		CDR H1-Choctha		CDR H1-Kabat							
Kabat number	Seq ID NO: 8	Seq ID NO: 10	Seq ID NO: 11	Seq ID NO: 12	Seq ID NO: 13	Seq ID NO: 14	Seq ID NO: 15	Seq ID NO: 16	Seq ID NO: 17	Seq ID NO: 18	Seq ID NO: 19	Seq ID NO: 20	Seq ID NO: 21
rb.Ab4	Q S V E E S G G R L V T P G T P L T L T C T V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E V Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A A S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E Q Q L L E S G G L V Q P G G S L R L S C A V S G F S L S N Y A M I W V R Q A P G	E V Q L L E S G G L V Q P G G S L R L S C A A S G F S L S N Y A M I W V R Q A P G	E V Q L L E S G G L V Q P G G S L R L S C A A S G F S L S N Y A M I W V R Q A P G

FIG. 5B

CDR H2-Contact

CDR H2-Choitia

CDR H2-Kabat

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Kabat number		SEQ ID NO: 8																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SUBSTITUTE SHEET (RULE 26)

FIG. 5C

Heavy Chain Variable Region (Ab4), Continued

		CDR H2-Contact																																					
		CDR H2-Choitia																																					
		CDR H2-Kabat																																					
Kabat number		82c	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100a	100b	100c	100d	100e	100f	100g	101	102	103	104	105	106	107	108	109	110	111	112	
rb.Ab4 (SEQ ID NO: 8)		P	T	T	E	D	T	A	T	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H1 (SEQ ID NO: 10)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H2 (SEQ ID NO 11)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H3 (SEQ ID NO: 12)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H4 (SEQ ID NO: 13)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H5 (SEQ ID NO: 14)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H6 (SEQ ID NO: 15)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H7 (SEQ ID NO: 16)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H8 (SEQ ID NO: 17)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H9 (SEQ ID NO: 18)		L	R	A	E	D	T	A	V	Y	Y	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S
hu.Ab4.H10 (SEQ ID NO: 19)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	Q	G	T	L	V	T	V	S	S
hu.Ab4.H11 (SEQ ID NO: 20)		L	R	A	E	D	T	A	V	Y	Y	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	Q	G	T	L	V	T	V	S	S
hu.Ab4.H12 (SEQ ID NO: 21)		L	R	A	E	D	T	A	V	Y	F	C	A	R	W	S	T	D	S	A	I	Y	T	Y	A	F	D	P	W	G	P	G	T	L	V	T	V	S	S

FIG. 5D

Light Chain Variable Region (Ab5)

Kabat number (SEQ ID NO: 34) rb.Ab5 (SEQ ID NO: 48) hu.Ab5.L1 (SEQ ID NO: 49) hu.Ab5.L2 (SEQ ID NO: 50) hu.Ab5.L3 (SEQ ID NO: 51) hu.Ab5.L4 (SEQ ID NO: 52)	42	D	I	V	V	T	Q	T	P	A	S	V	E	A	V	G	T	V	T	I	K	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	S	G	Q		
	41	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	40	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	39	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	38	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	37	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	36	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	35	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	34	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	33	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	32	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	31	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	30	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	29	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
	28	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K
27	D	I	Q	V	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	Q	A	S	E	N	I	A	N	A	L	A	W	Y	Q	Q	K	P	G	K	

CDR L2-Contact

CDR L2-Contact
CDR L2-Choithia
CDR L2-Kabat

Kabat number	rb.Ab5 {SEQ ID NO: 34} hu.Ab5.L1 {SEQ ID NO: 48} hu.Ab5.L2 {SEQ ID NO: 49} hu.Ab5.L3 {SEQ ID NO: 50} hu.Ab5.L4 {SEQ ID NO: 51} hu.Ab5.L5 {SEQ ID NO: 52}	84	P	P	M	F	L	I	Y	G	A	S	N	L	A	S	G	V	S	S	R	F	K	G	S	G	S	G	T	E	F	T	T	I	S	S	L	E	C	A	D	A	A		
		83	P	P	K	F	L	I	Y	G	A	S	N	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P	E	D	I	A	
		82	P	P	K	F	L	I	Y	G	A	S	N	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P	E	D	I	A	
		81	A	P	K	F	L	I	Y	G	A	S	N	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P	E	D	I	A	
		80	P	P	K	L	L	I	Y	G	A	S	N	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P	E	D	I	A	
		79	A	P	K	L	L	I	Y	G	A	S	N	L	A	S	G	V	P	S	R	F	S	G	S	G	S	G	T	D	F	T	F	T	I	S	S	L	Q	P	E	D	I	A	
		78																																											
		77																																											
		76																																											
		75																																											
		74																																											
		73																																											
		72																																											
		71																																											
		70																																											

CDR L3-Contact

CDR L3-Contact
CDR L3-Choithia
CDR L3-Kabat

Kabat number (SEQ ID NO: 34) rb.Ab5 (SEQ ID NO: 48) hu.Ab5.L1 (SEQ ID NO: 49) hu.Ab5.L2 (SEQ ID NO: 50) hu.Ab5.L3 (SEQ ID NO: 51) hu.Ab5.L4 (SEQ ID NO: 52)	107	V	Y	C	Q	C	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	G	T	E	V	V	V	K
	106	T	Y	C	Q	Q	Q	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	T	K	V	E	I	K
	105	T	Y	C	Q	Q	Q	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	T	K	V	E	I	K
	104	T	Y	C	Q	Q	Q	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	T	K	V	E	I	K
	103	T	Y	C	Q	Q	Q	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	T	K	V	E	I	K
	102	T	Y	C	Q	Q	Q	A	Y	Y	G	N	S	F	V	E	G	T	F	G	G	T	K	V	E	I	K

FIG. 6A

Heavy Chain Variable Region (Ab5)	Kabat number	CDR H1—Contact																				CDR H1—Choithia																				CDR H1—Kabati																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42																		
rb.Ab5 (SEQ ID NO: 33)		Q	S	V	E	E	S	G	G	G	L	V	S	P	G	G	T	P	L	T	L	T	C	T	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																		
hu.Ab5.H1 (SEQ ID NO: 35)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H2 (SEQ ID NO: 36)		E	V	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H3 (SEQ ID NO: 37)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	S	A	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																		
hu.Ab5.H4 (SEQ ID NO: 38)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H5 (SEQ ID NO: 39)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H6 (SEQ ID NO: 40)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H7 (SEQ ID NO: 41)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H8 (SEQ ID NO: 42)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H9 (SEQ ID NO: 43)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H10 (SEQ ID NO: 44)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H11 (SEQ ID NO: 45)		E	Q	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	V	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																			
hu.Ab5.H12 (SEQ ID NO: 46)		E	V	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	S	A	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																		
hu.Ab5.H13 (SEQ ID NO: 47)		E	V	Q	L	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	S	A	S	G	I	D	L	S	T	Y	A	M	G	W	V	R	Q	A	P	G																		

SUBSTITUTE SHEET (RULE 26)

ELCSD

[illegible]

FIG. 6C

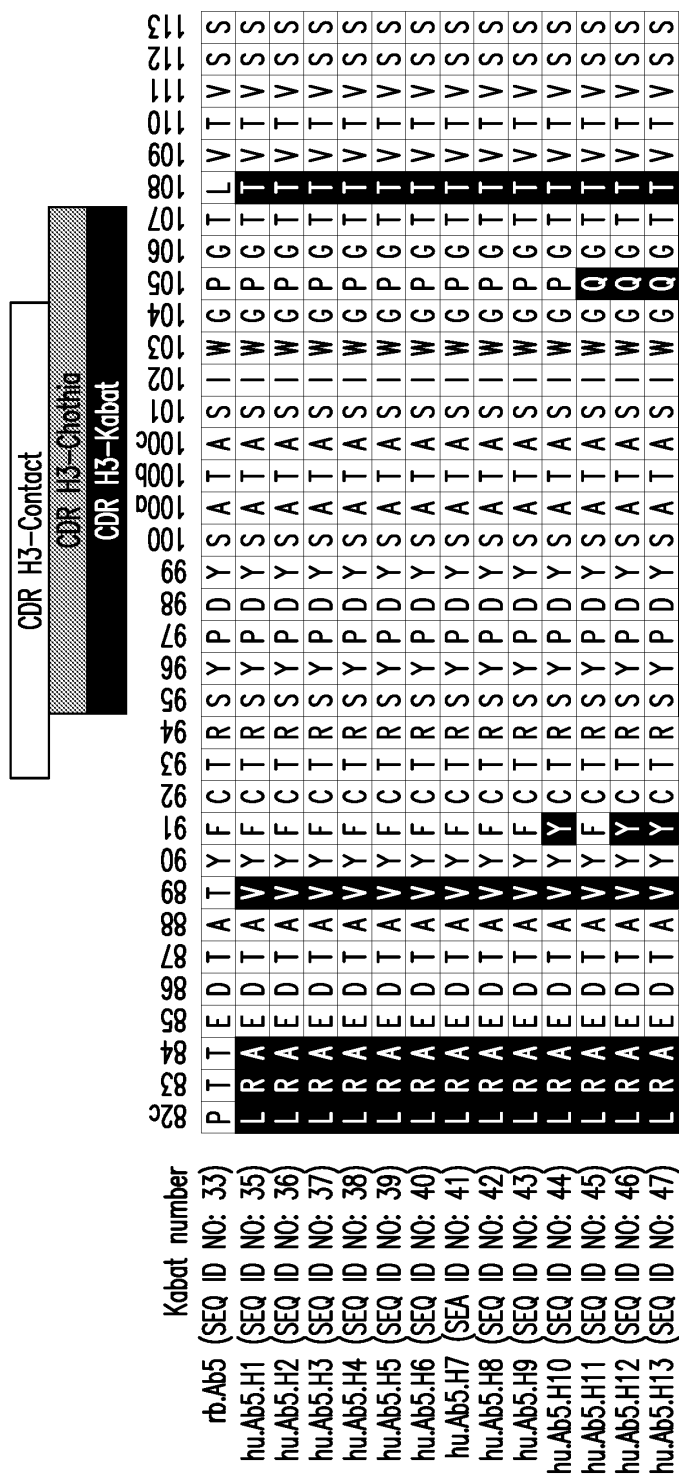


FIG. 6D

Ab4 Human – Cyno Cross Reactivity

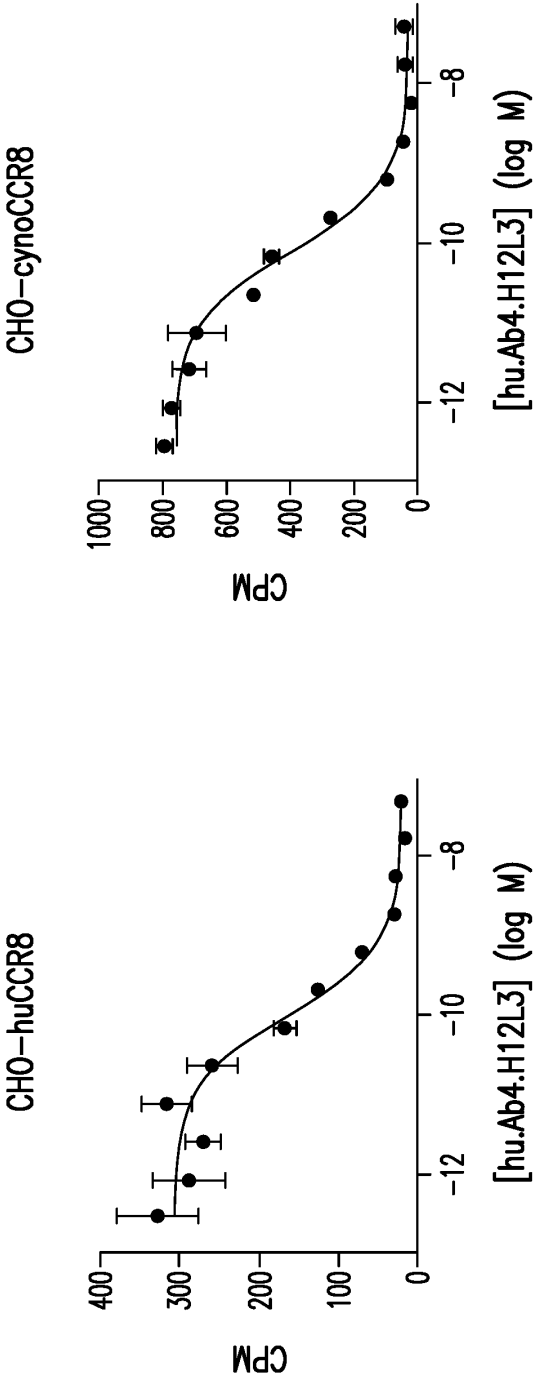


FIG. 7B

FIG. 7A

Ab5 Human – Cyno Cross Reactivity

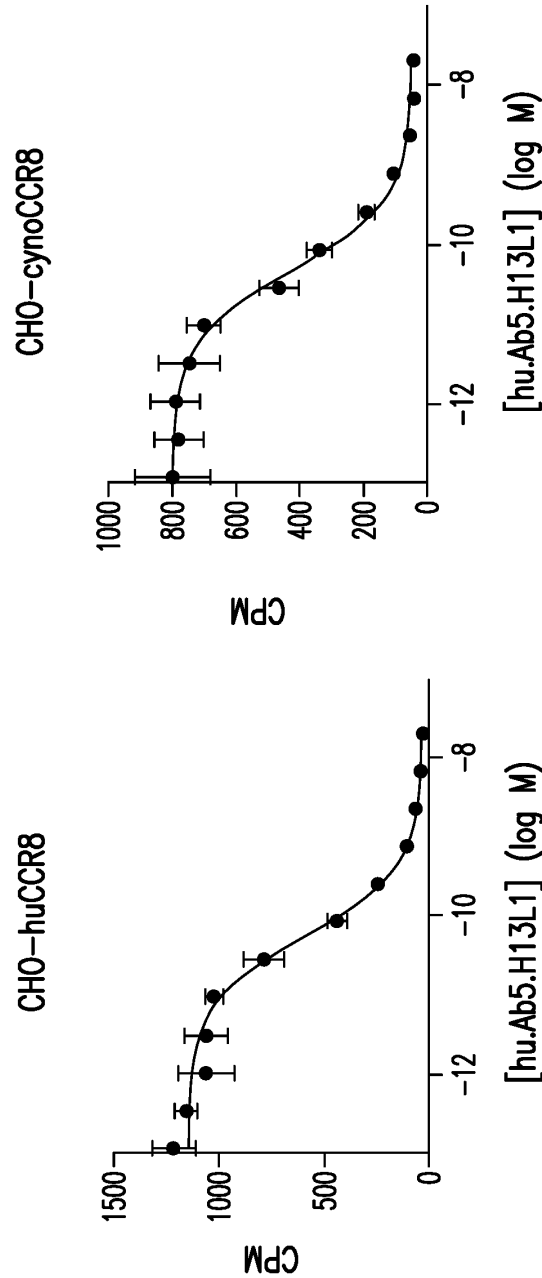


FIG. 7D

FIG. 7C

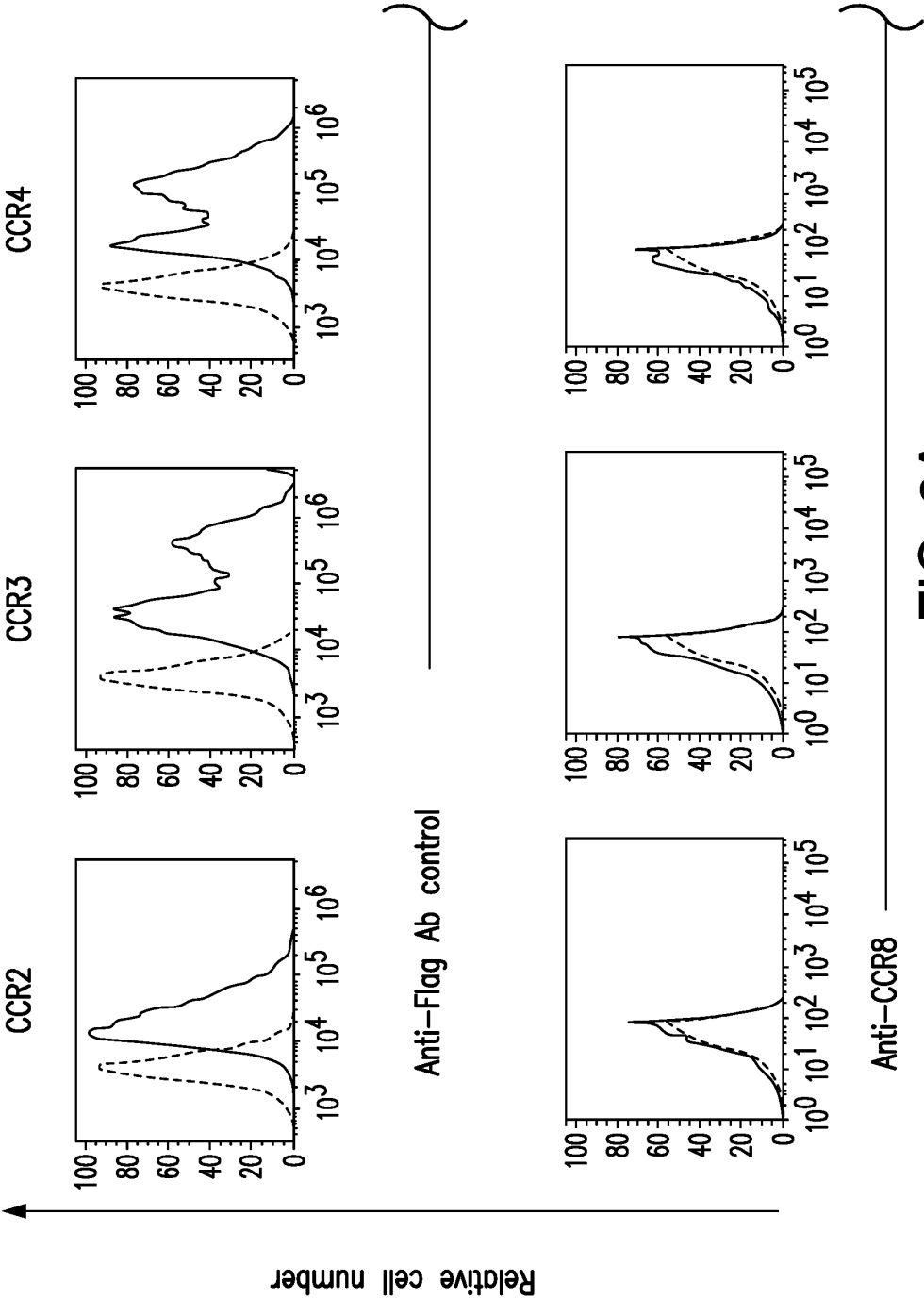


FIG. 8A

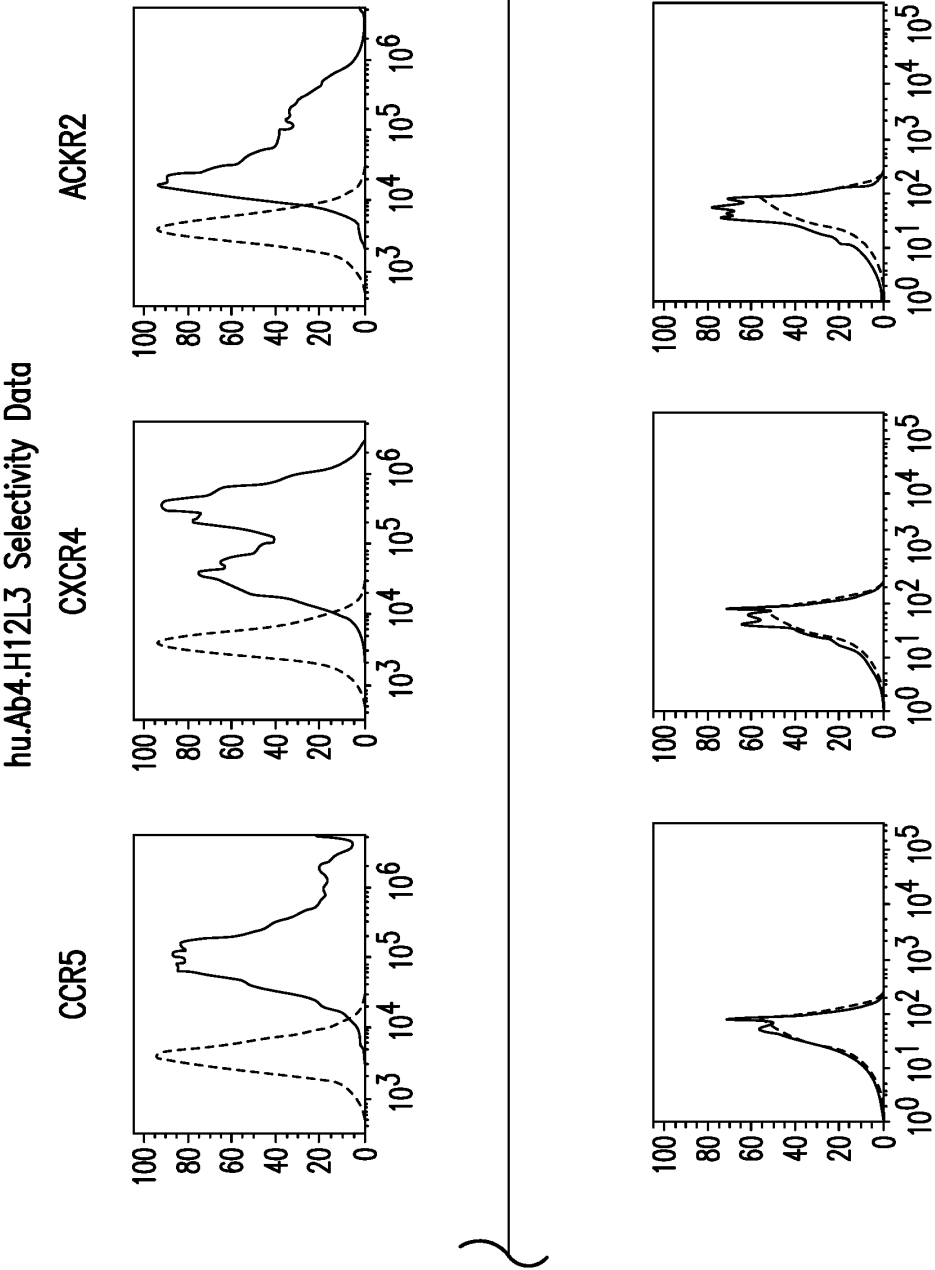


FIG. 8A Continued

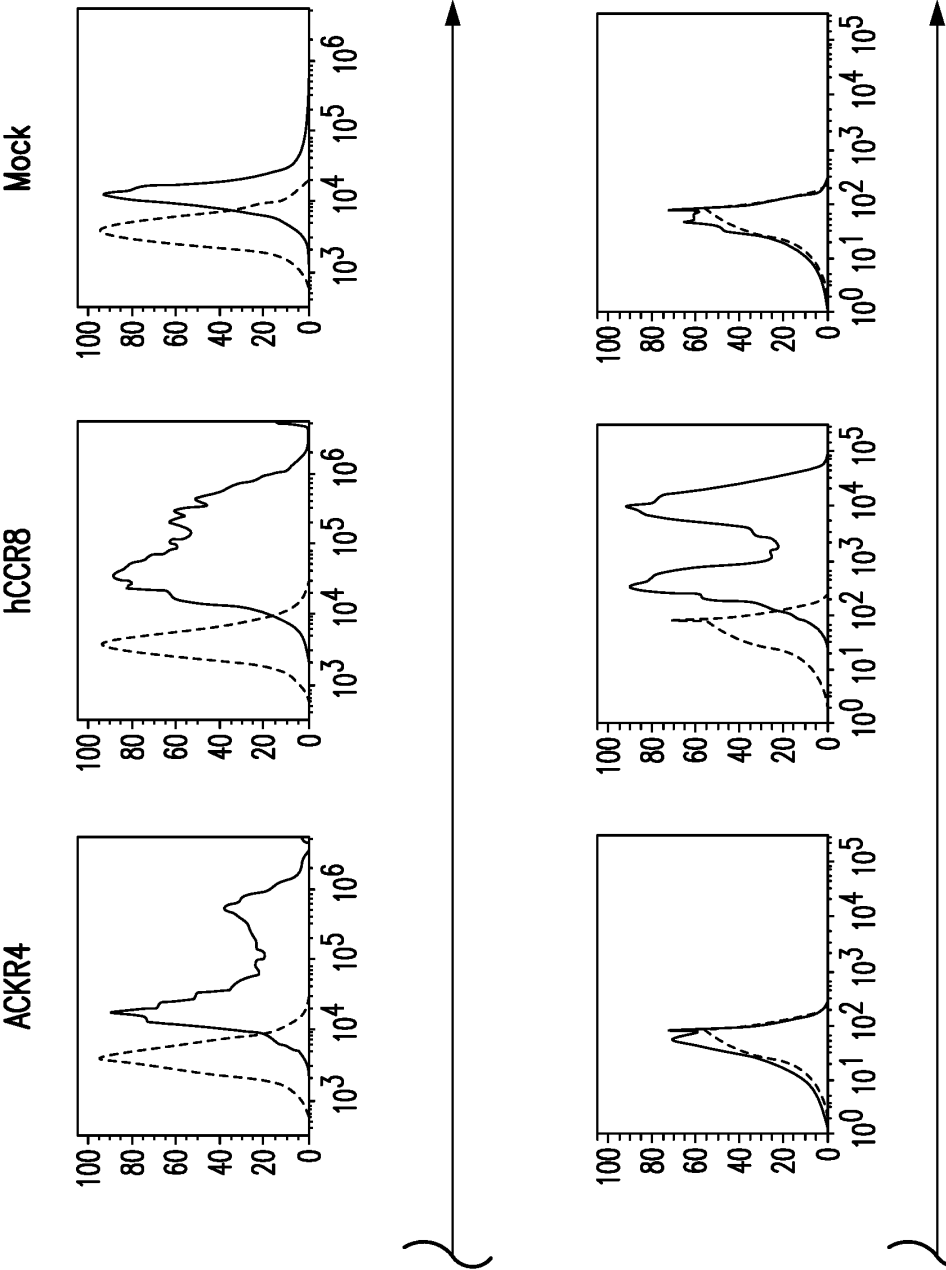
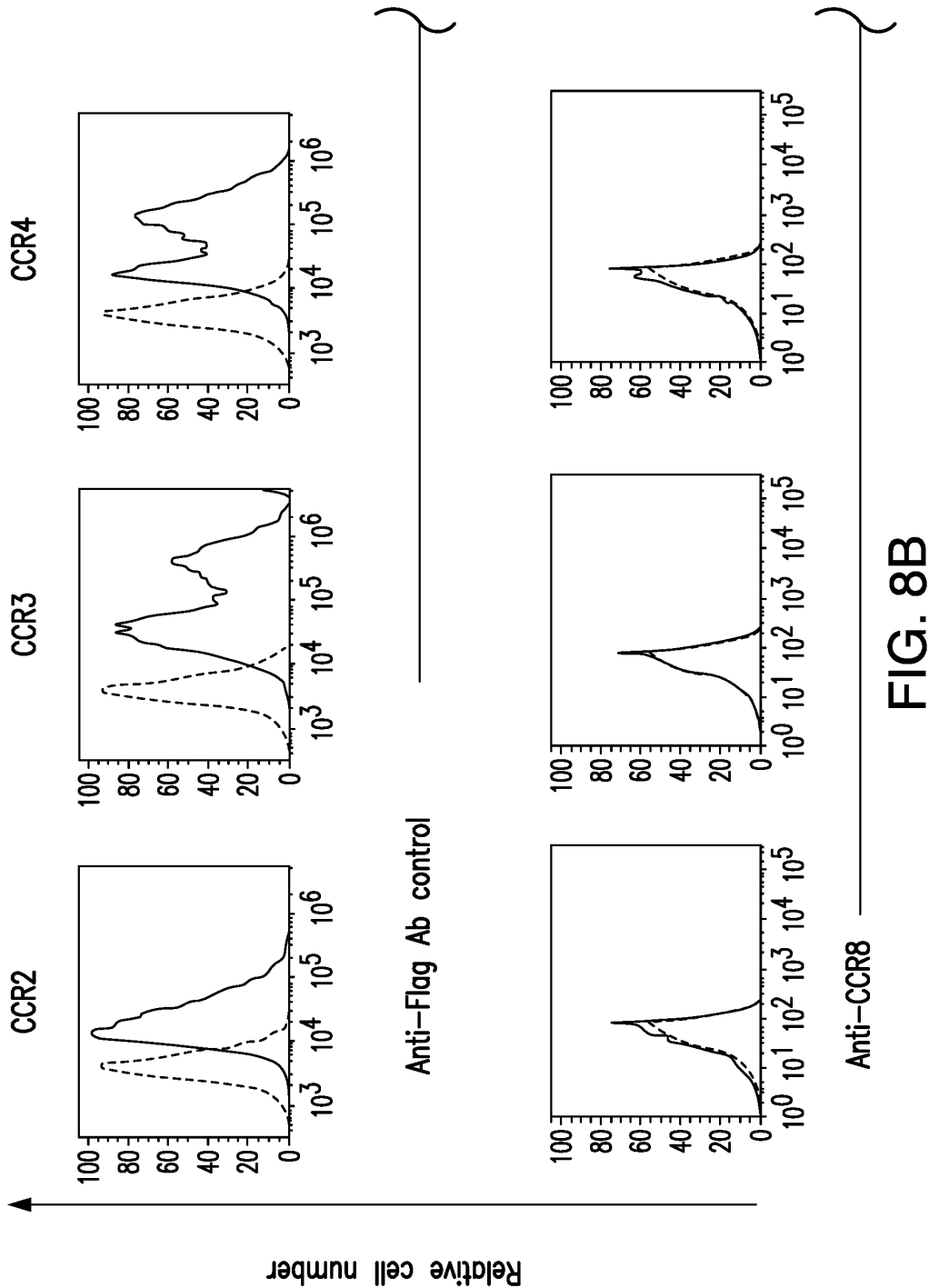


FIG. 8A Continued-2



hu.Ab5.H13L1 Selectivity Data

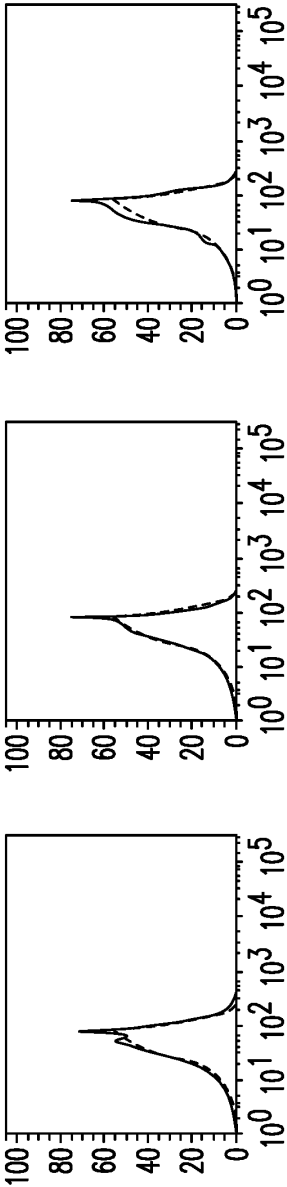
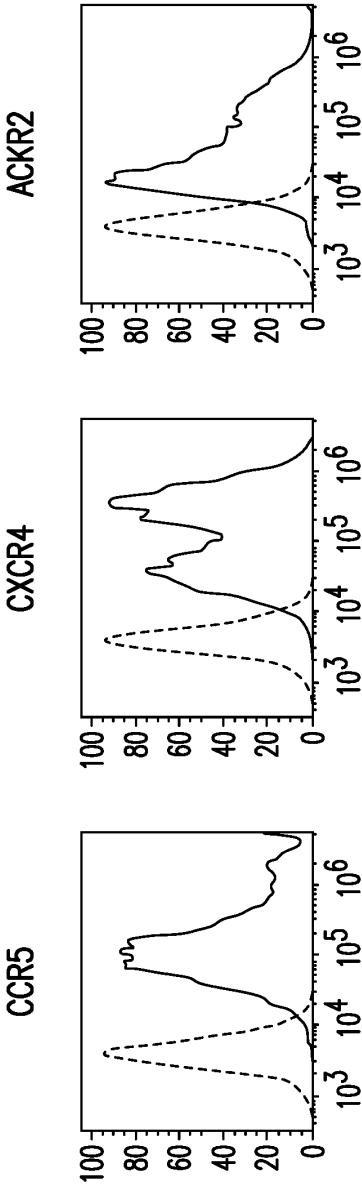


FIG. 8B Continued

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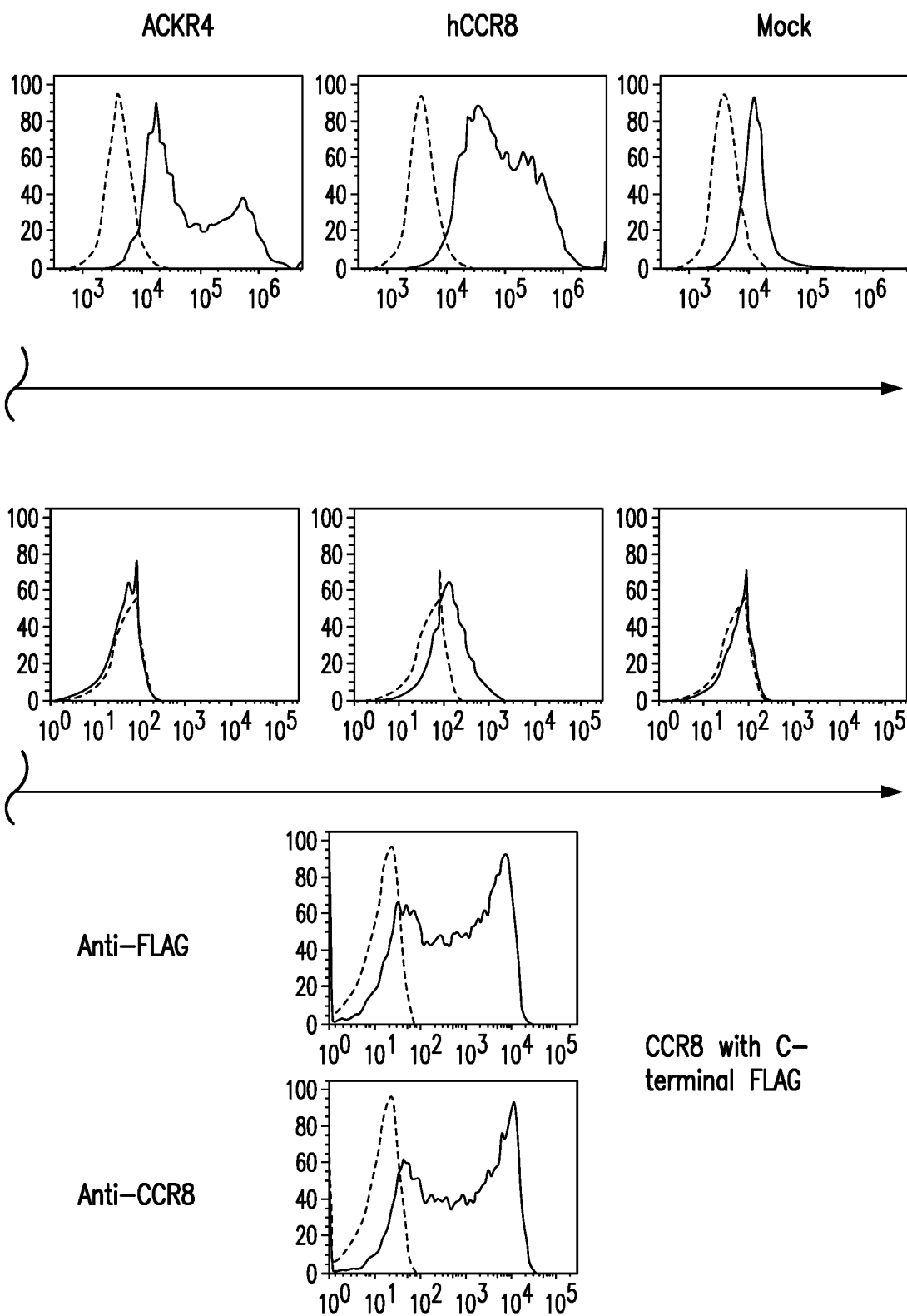


FIG. 8B Continued-2

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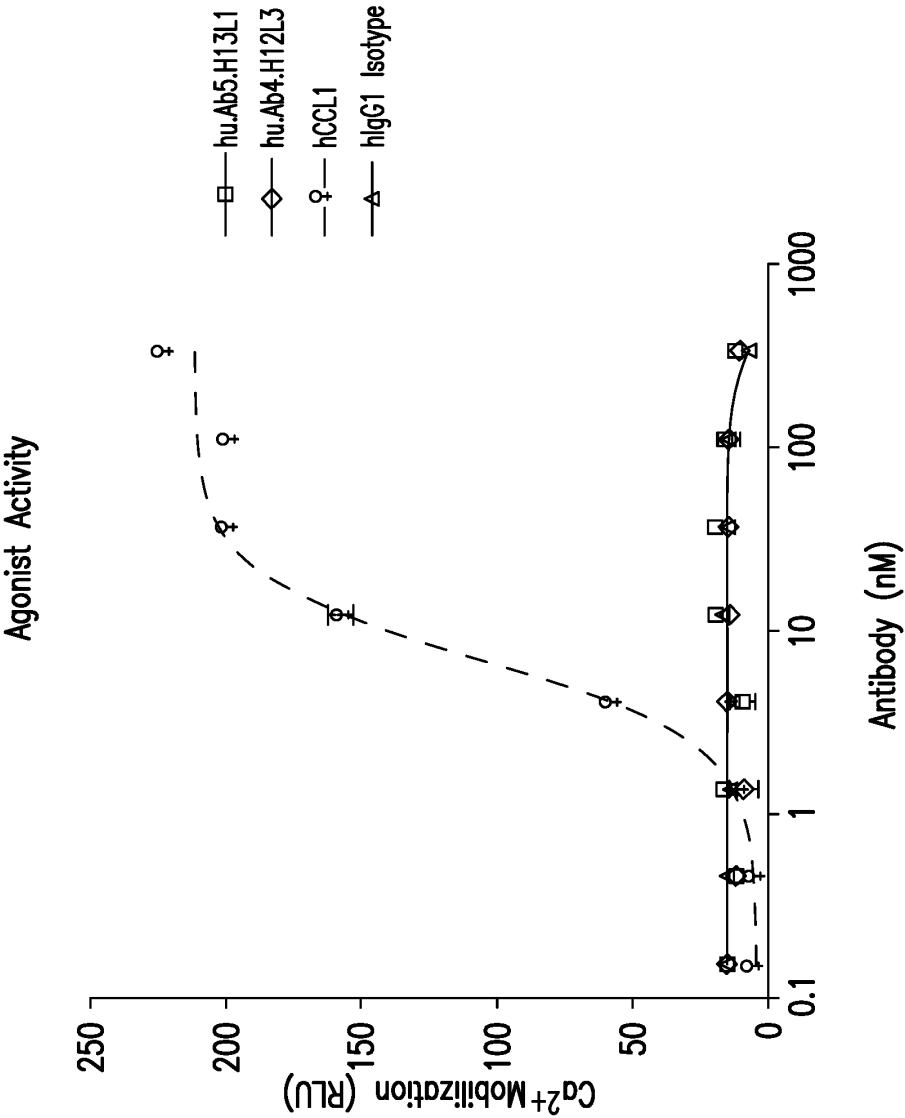


FIG. 9A

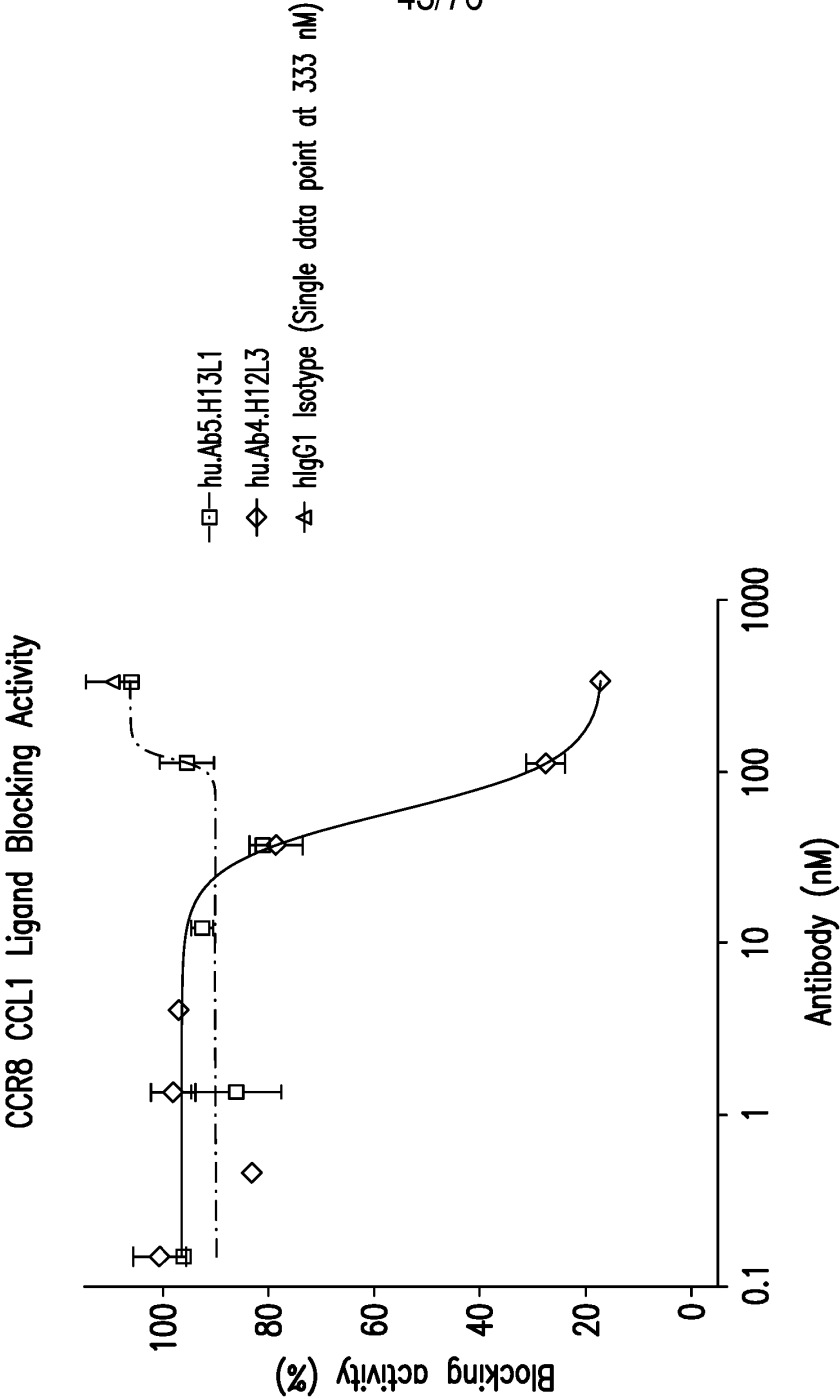


FIG. 9B

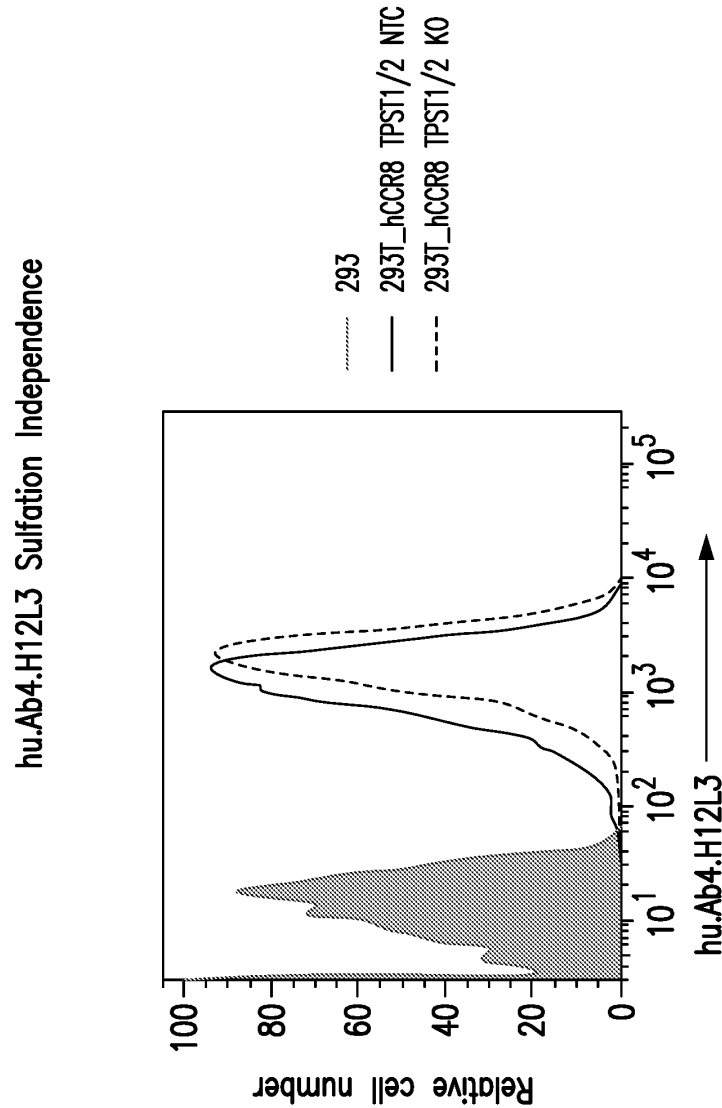


FIG. 10A

hu.Ab5.H13L1 Sulfation Independence

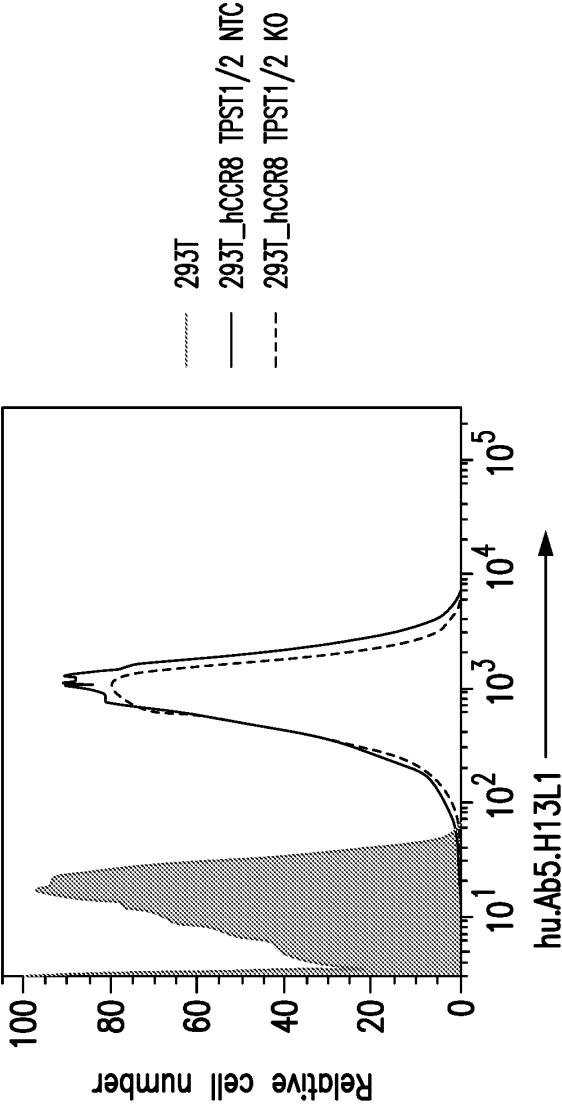


FIG. 10B

Yoshida Ab Sulfation Dependence

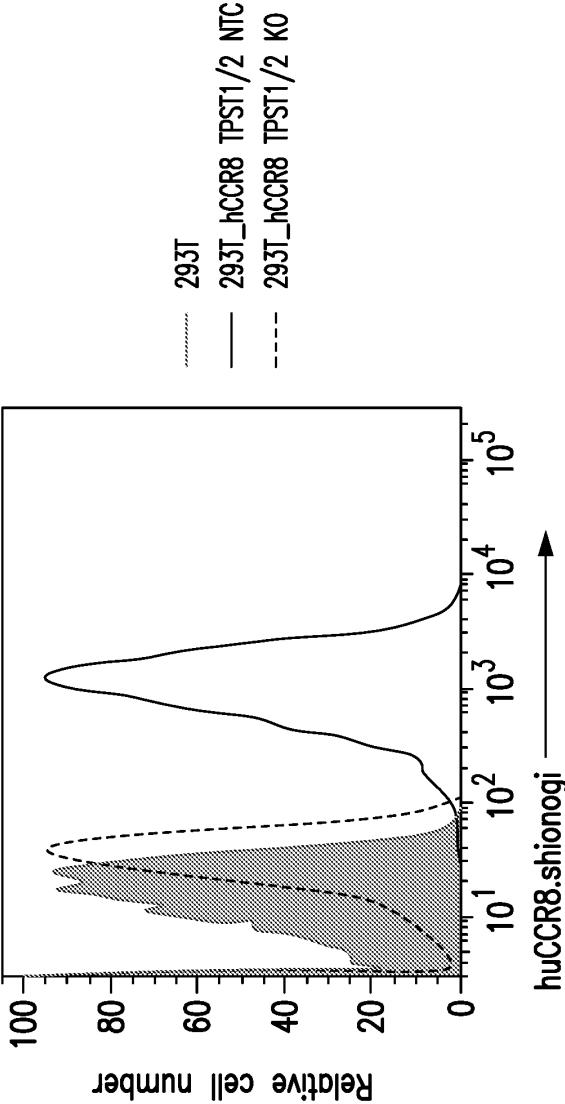


FIG. 10C

433H (BD Biosciences) Ab Sulfation Dependence

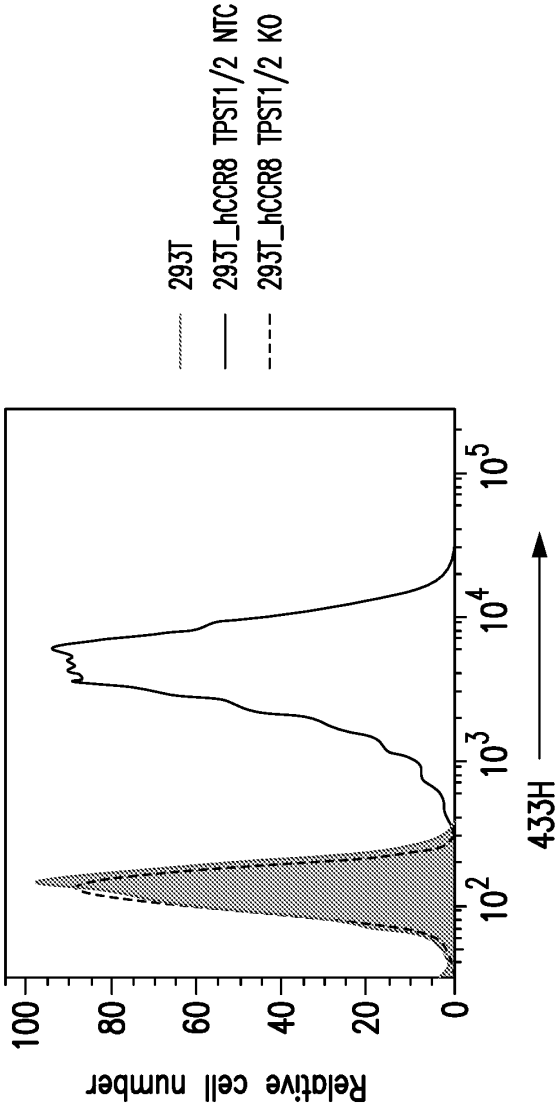


FIG. 10D

L263G8 (Biolegend) Ab Sulfation Dependence

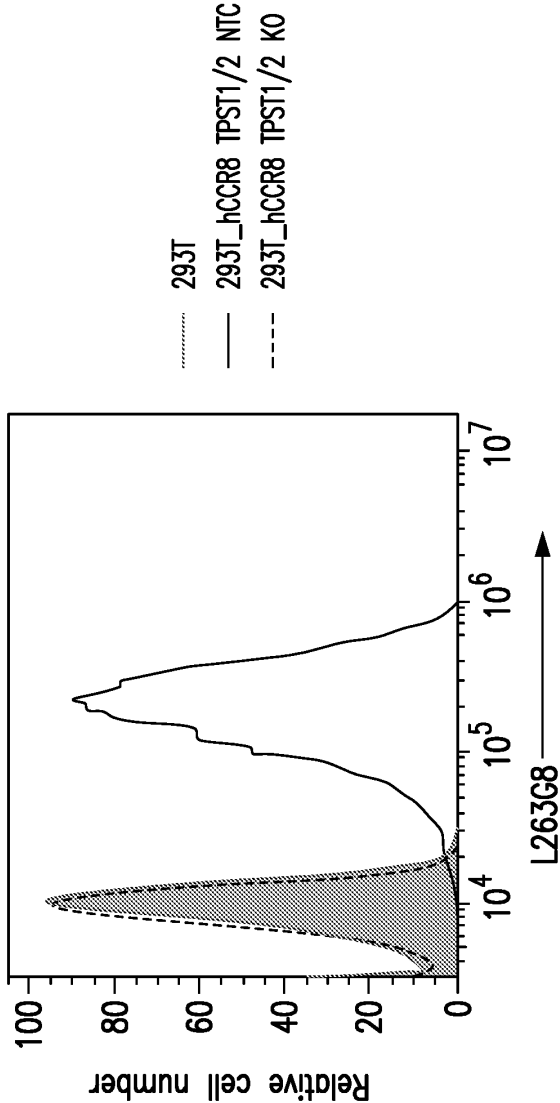


FIG. 10E

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Enhanced ADCC Activity of Afucosylated Ab4 and Ab5 Variants (NK-92 F158 cells)

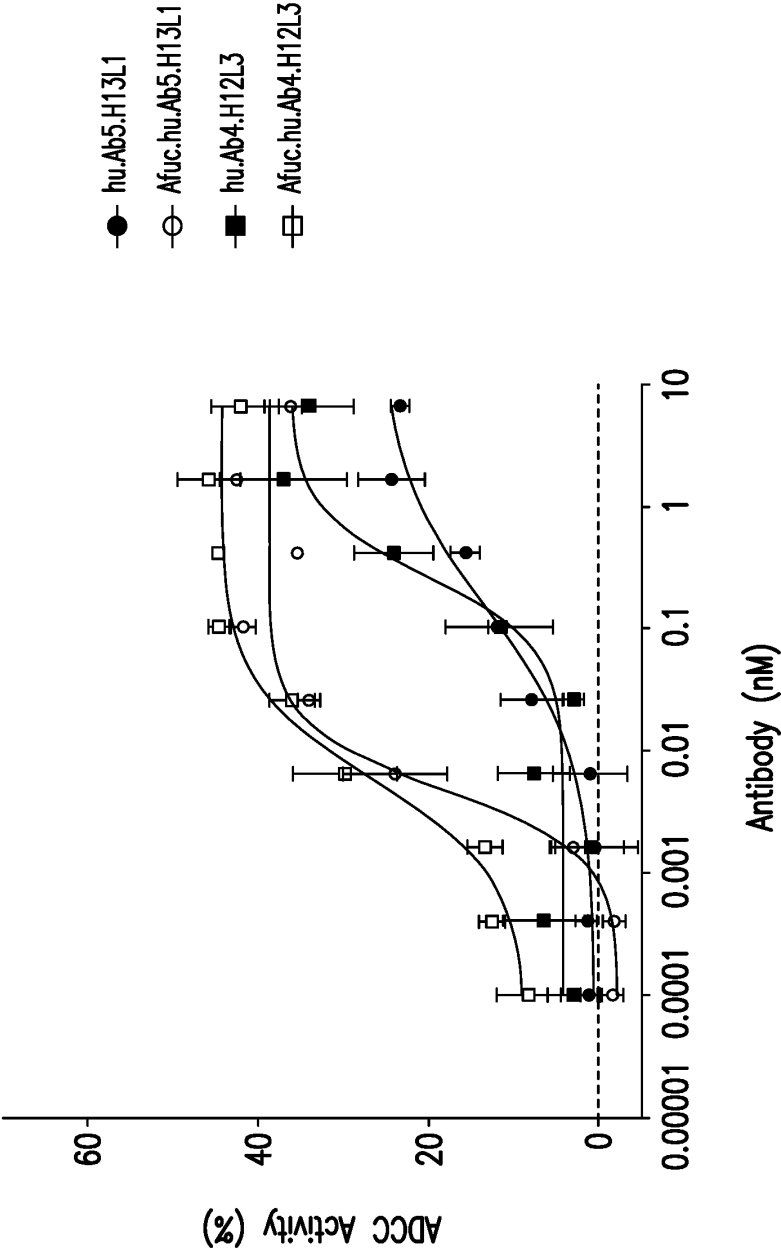


FIG. 11A

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Enhanced ADCC Activity of Afucosylated Ab4 and Ab5 Variants (NK-92 V158 cells)

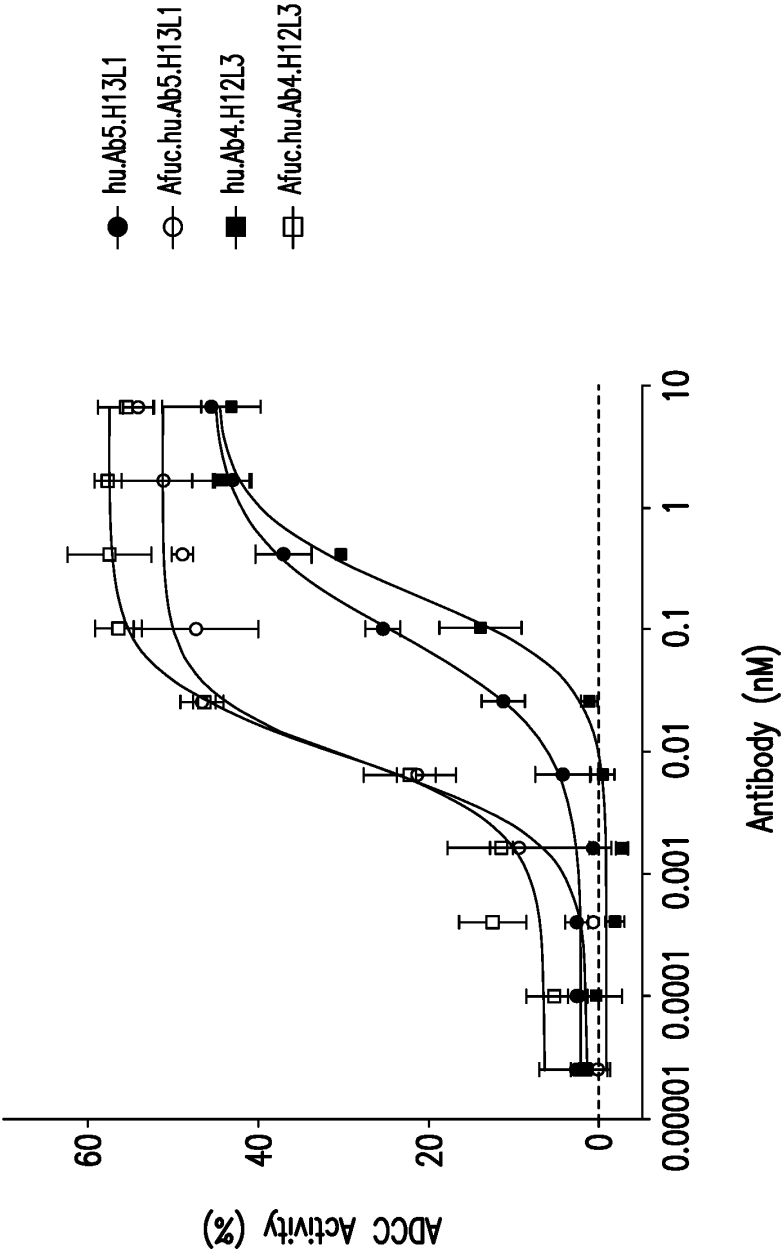


FIG. 11B

ADCC Activity of Afucosylated Ab4 and Ab5 variants versus Comparators (NK-92 F158 cells)

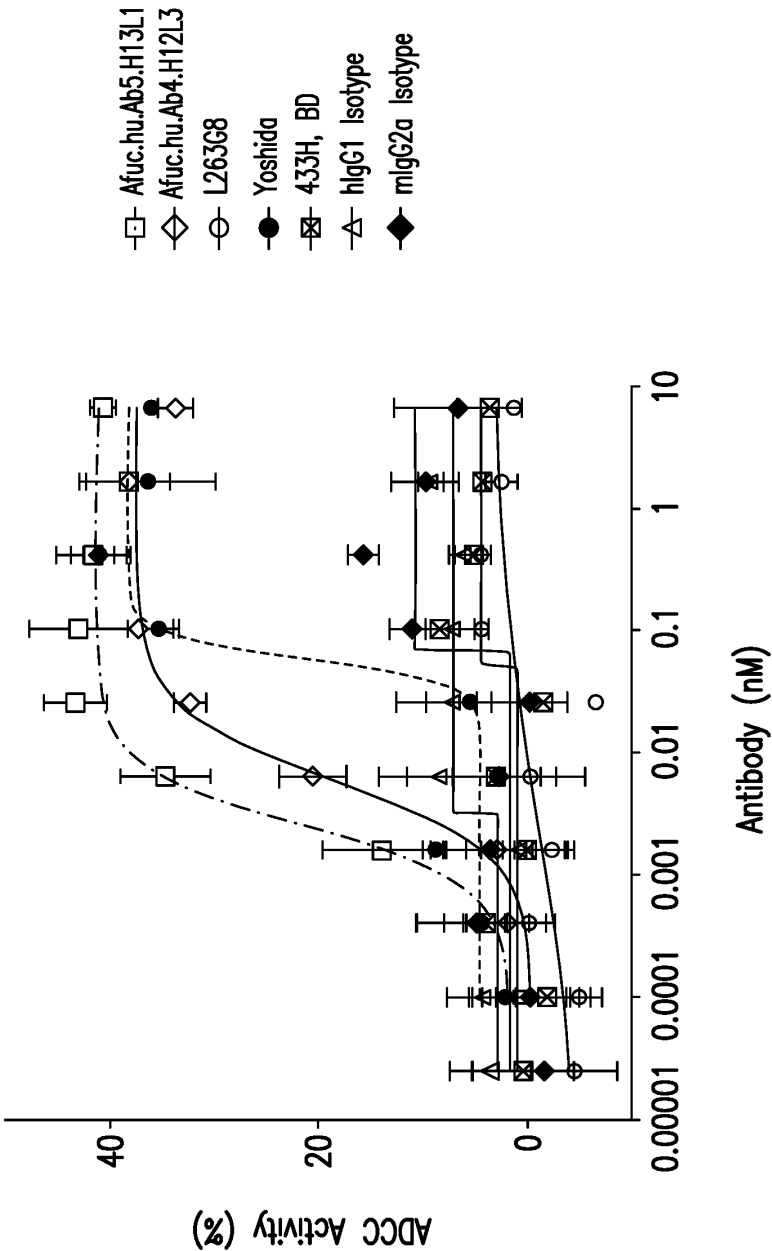


FIG. 11C

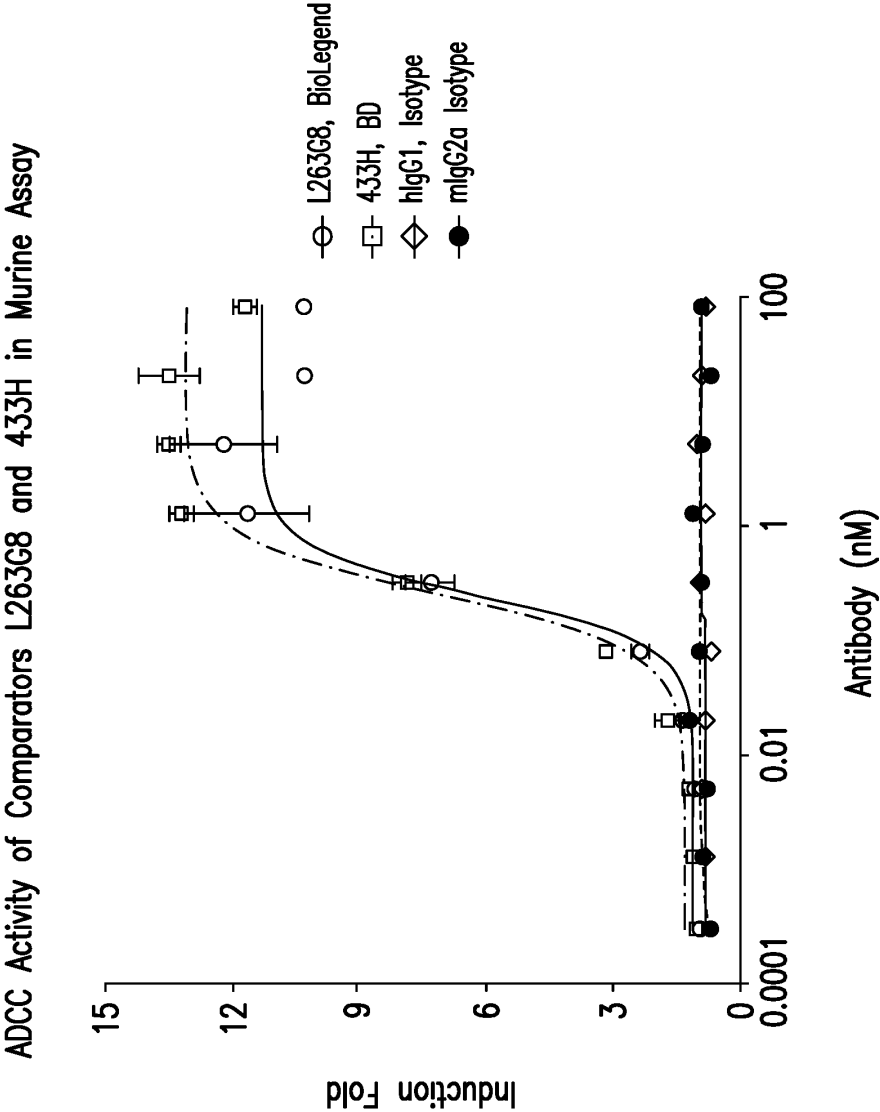


FIG. 11D

ADCC Activity Against Tregs in MLR-activated Human PBMCs
hu.Ab4.H12L3 Fucosylated versus Afucosylated Variants

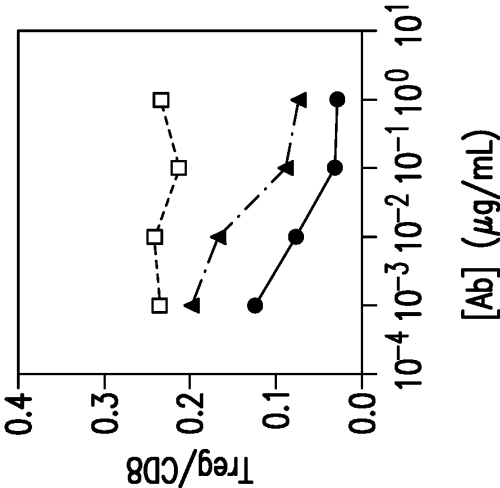


FIG. 12A

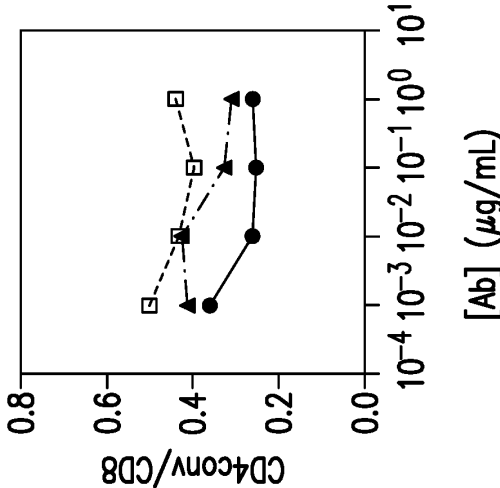


FIG. 12B

- gD.Afuc (control)
- ▲-Fucosylated hu.Ab4.H12L3
- Afucosylated hu.Ab4.H12L3

ADCC Activity Against Tregs in MLR-activated Human PBMCs
hu.Ab5.H13L1 Fucosylated versus Afucosylated Variants

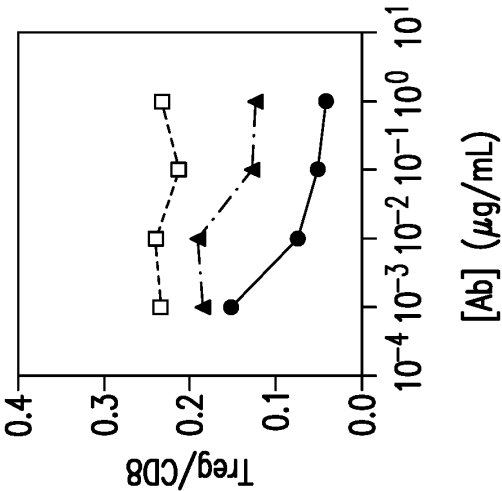


FIG. 12C

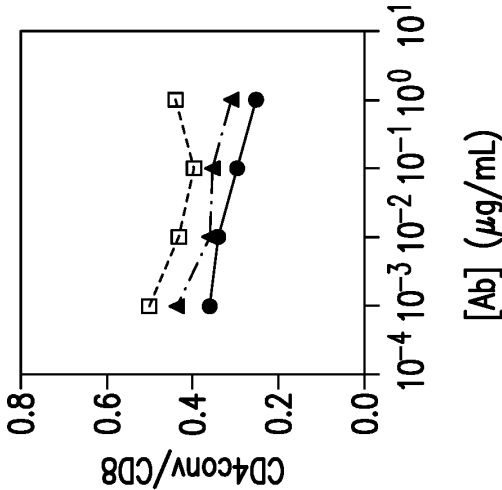


FIG. 12D

- gD.Afuc (control)
- ▲-Fucosylated hu.Ab5.H13L1
- Afucosylated hu.Ab5.H13L1

ADCC Activity Against Tregs in Human RCC Cells
hu.Ab4.H12L3 Fucosylated versus Afucosylated Variants

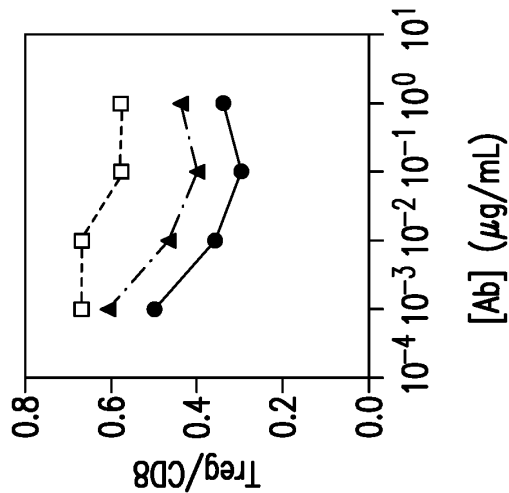


FIG. 13A

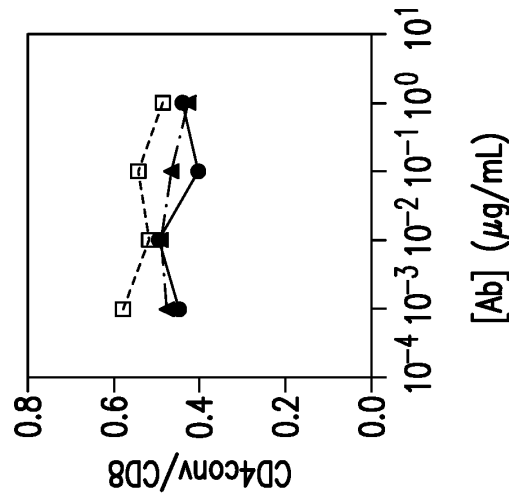


FIG. 13B

- gD.Afuc (control)
- ▲-Fucosylated hu.Ab4.H12L3
- Afucosylated Afuc.hu.Ab4.H12L3

ADCC Activity Against Tregs in Human RCC Cells
hu.Ab5.H13L1 Fucosylated versus Afucosylated Variants

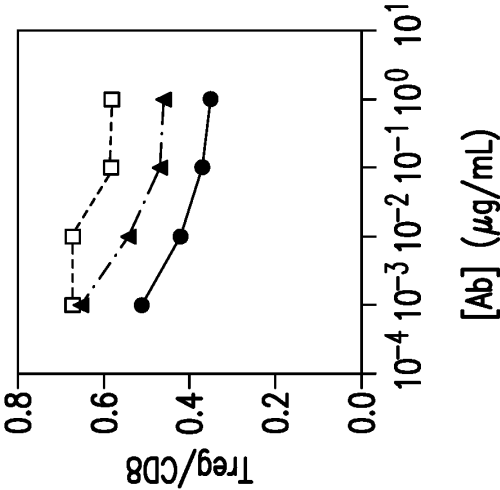


FIG. 13C

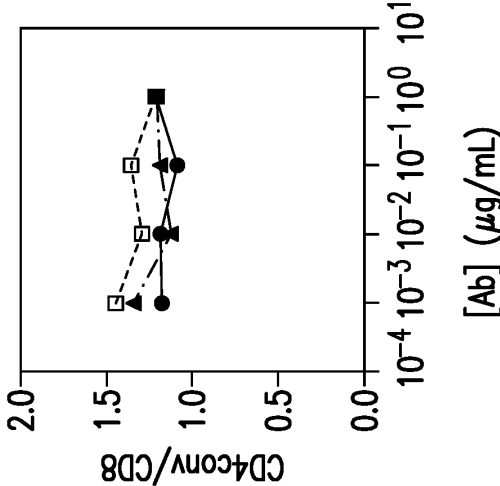


FIG. 13D

- gD.Afuc (control)
- ▲-Fucosylated hu.Ab5.H13L1
- Afucosylated Afuc.hu.Ab5.H13L1

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Enhanced ADCP activities of Afucosylated Variants in HR/FF and RR/FF genotypes

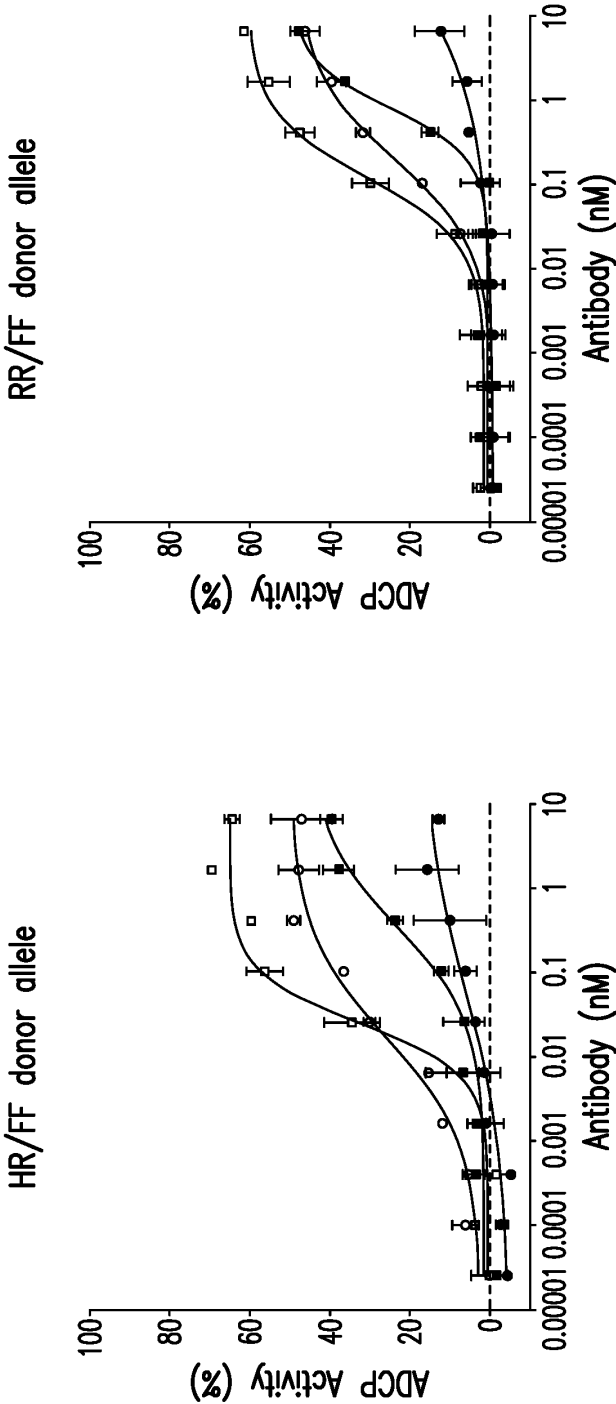


FIG. 14B

FIG. 14A

Enhanced ADCP activities of Afucosylated Variants in HR/VF and RR/VF genotypes

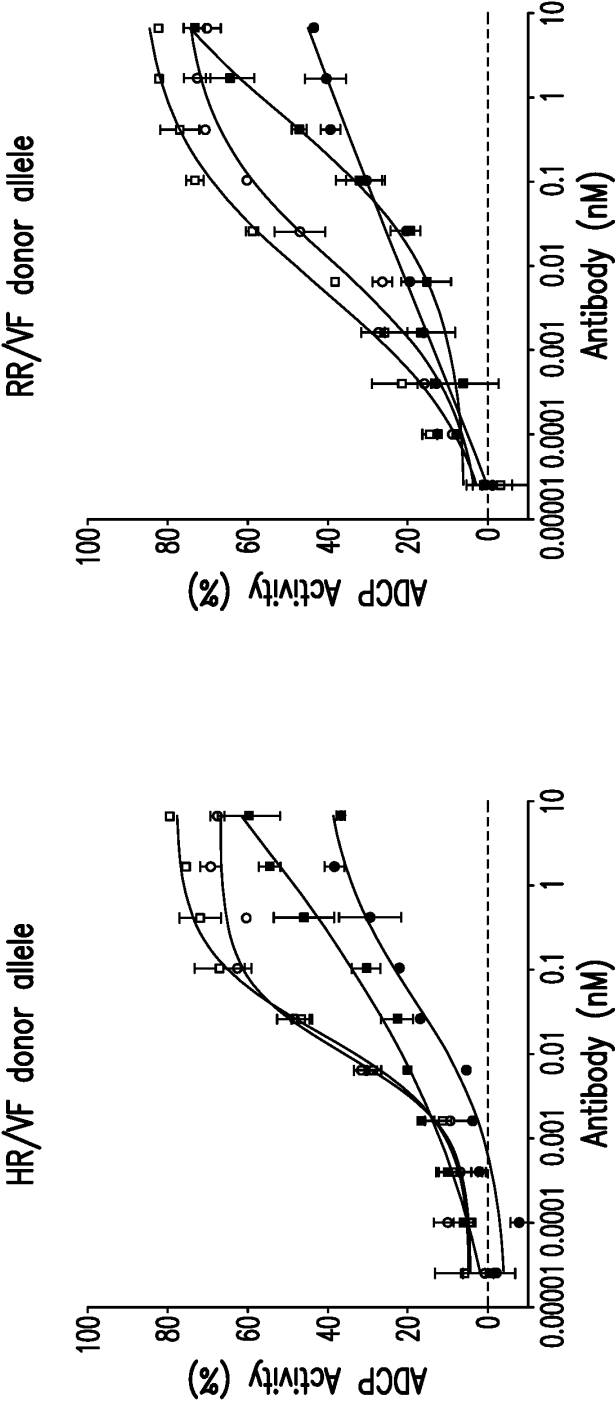


FIG. 14D

FIG. 14C

Enhanced ADCP activity of Afuc Ab4 and Ab5 variants versus Yoshida Ab (HR/FF donor allele)

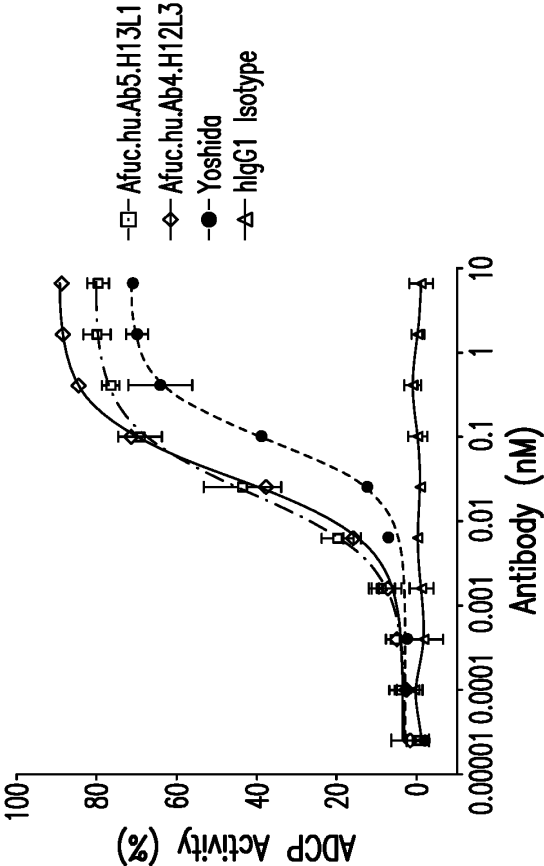
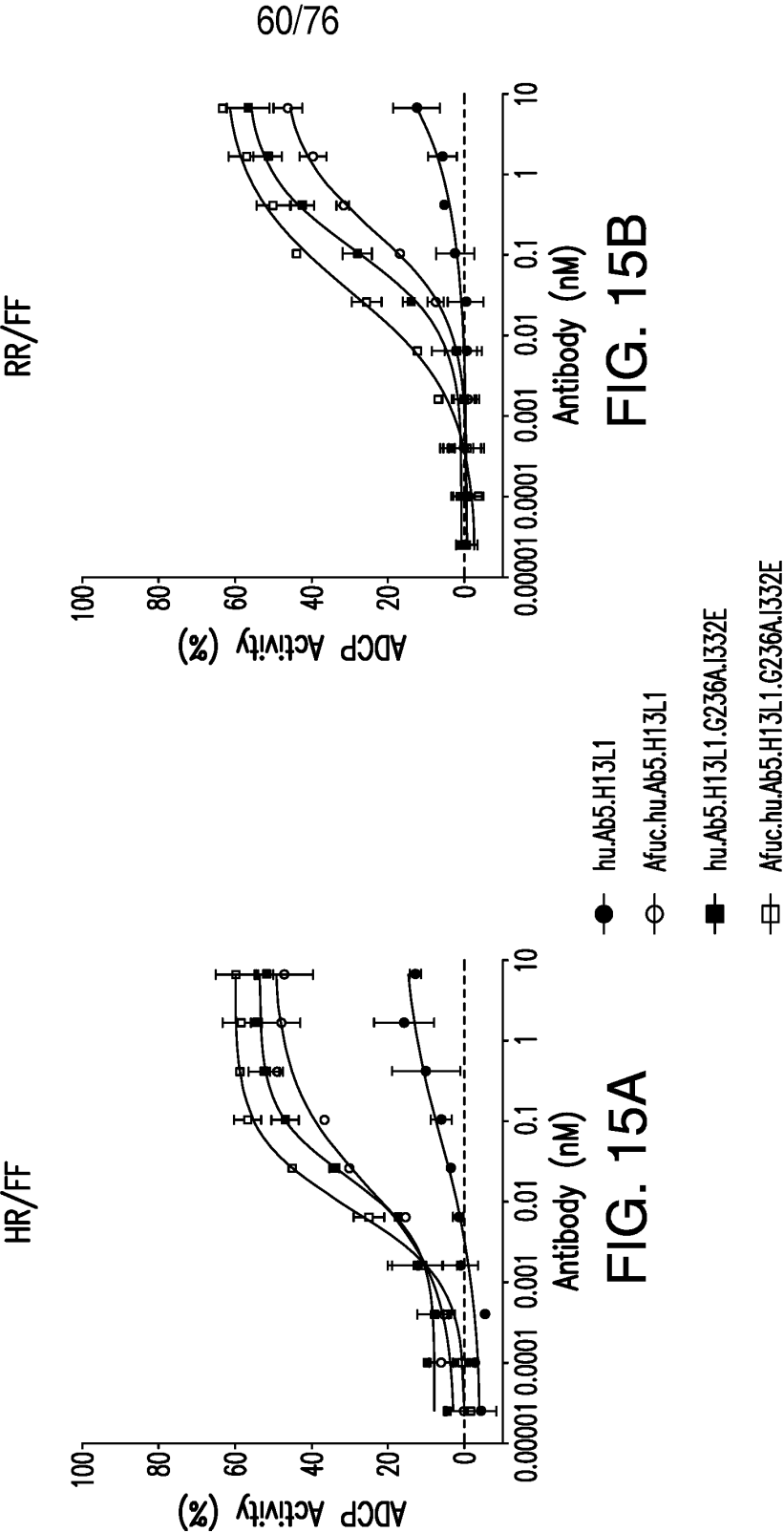


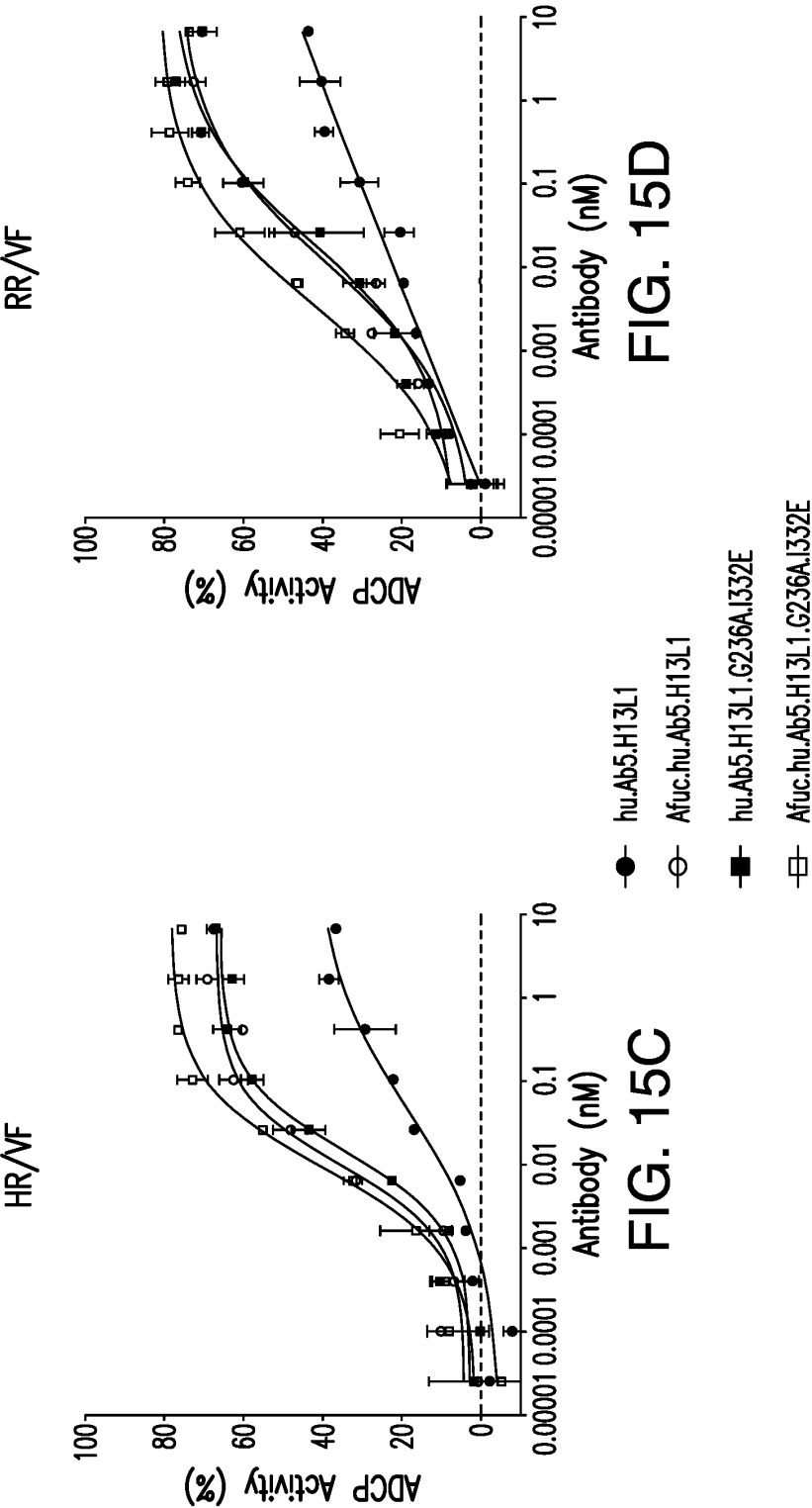
FIG. 14E

Enhanced ADCP activities of Fucosylated Ab5 Variants, including a G236A.I332E mutant, in HR/FF and RR/FF genotypes



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Enhanced ADCP activities of Fucosylated Ab5 Variants, including a G236A.I332E mutant, in HR/VF and RR/VF genotypes



hu.Ab5.H13L1 binds to human CCR8 N-terminus D2 to D6
huCCR8 N-terminus: MDYTLDSLVTITVDYYPDIFSSP (SEQ ID NO: 110)

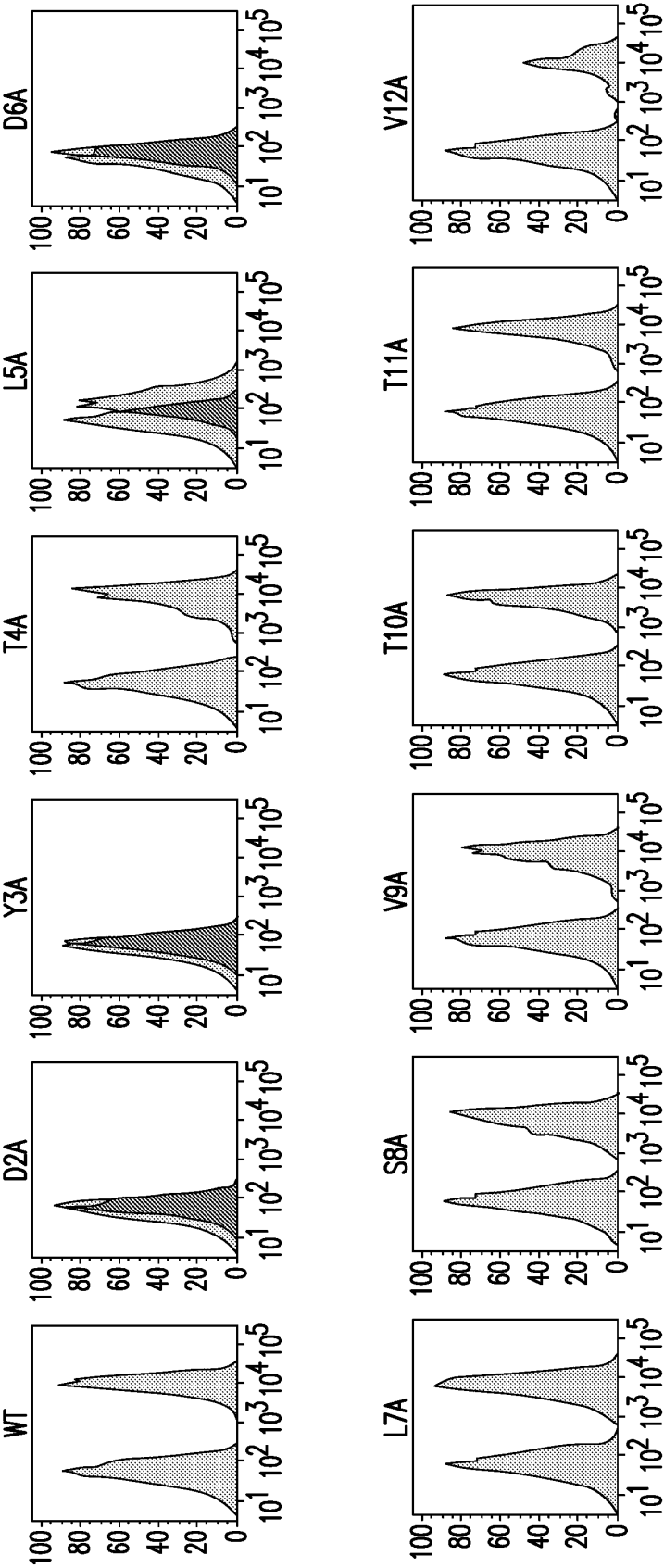
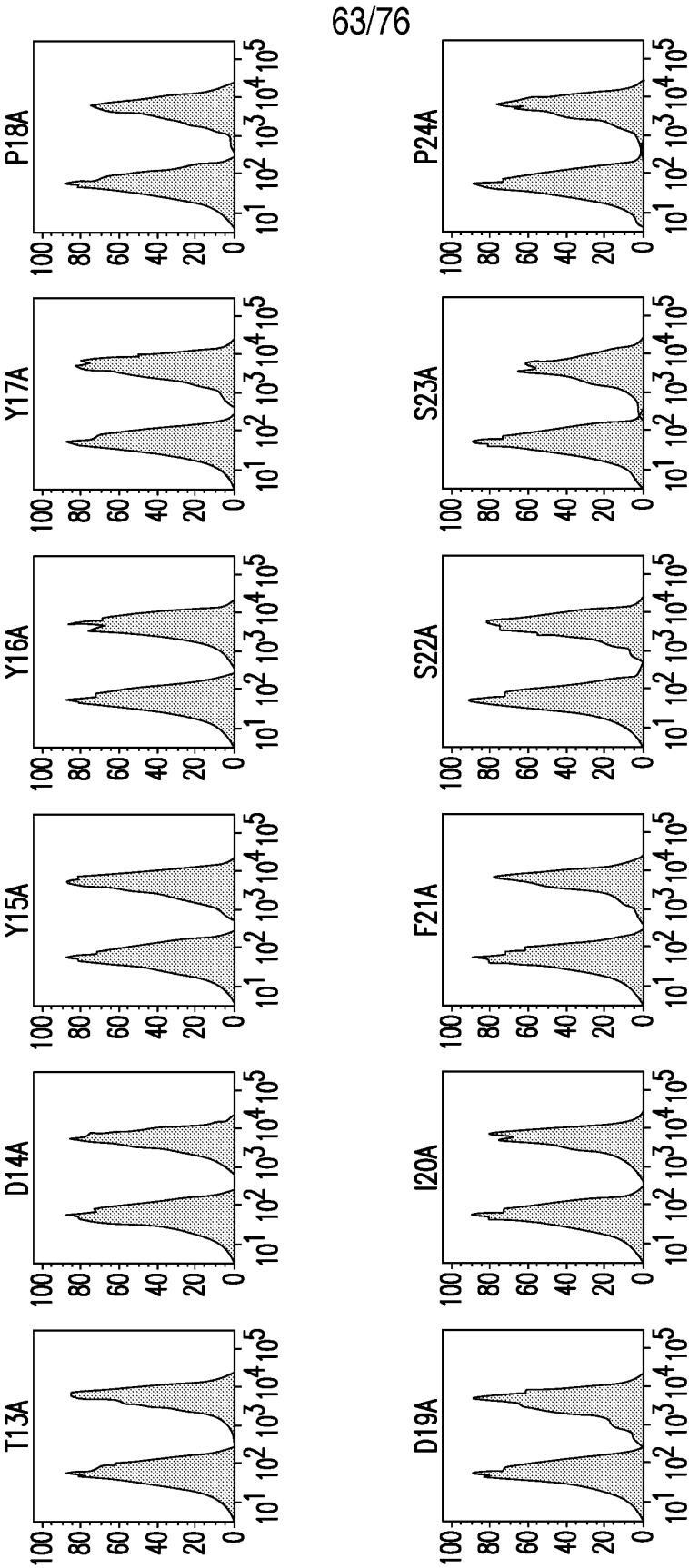


FIG 16A



[huCCR8]=0.02 ug/ml

FIG. 16A Continued

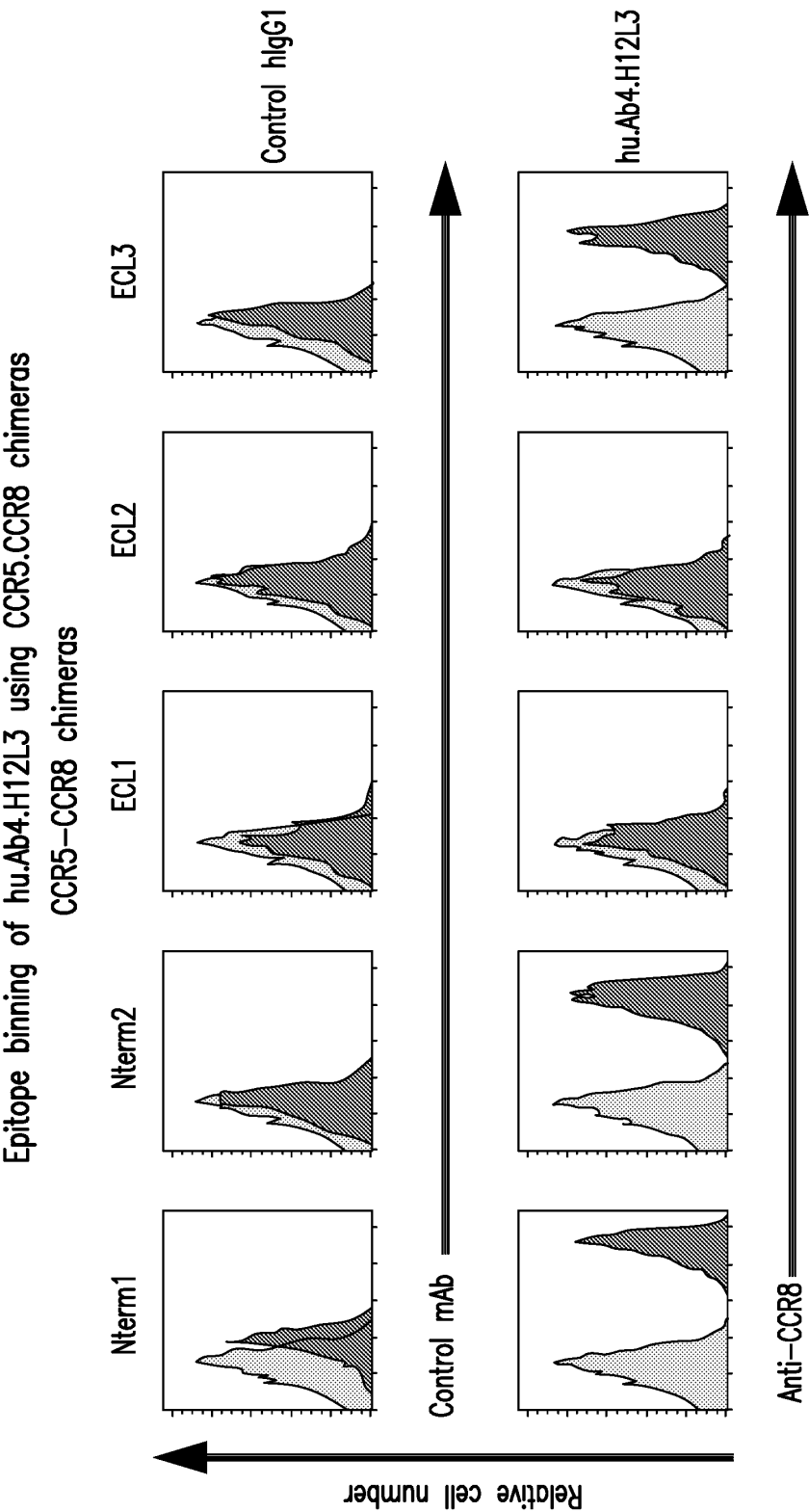


FIG. 16B

Treg cell depletion with dose titration of Surrogate Mouse anti-mCCR8 Ab

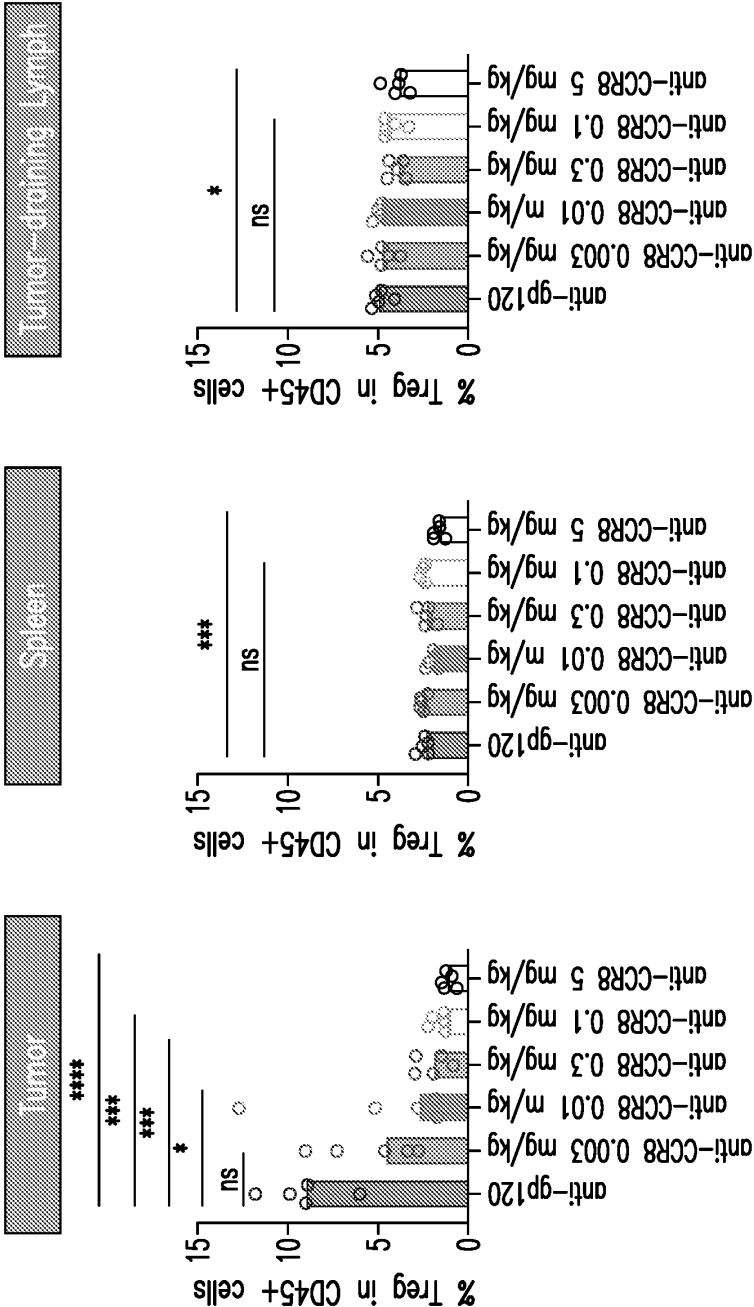


FIG. 17A

FIG. 17B

FIG. 17C

No CD4 conventional T cell depletion with dose titration of Surrogate Mouse anti-mCCR8 Ab

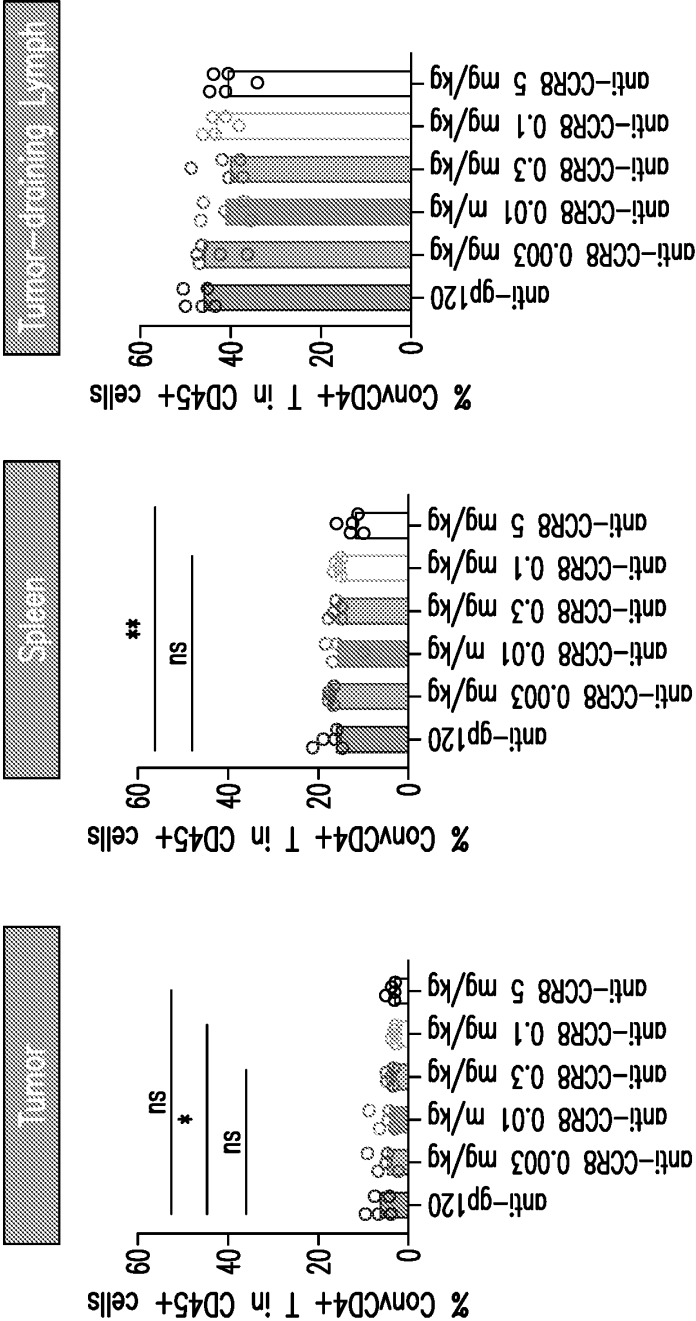


FIG. 17F

FIG. 17E

FIG. 17D

No CD8 T cell depletion with dose titration of Surrogate Mouse anti-mCCR8 Ab

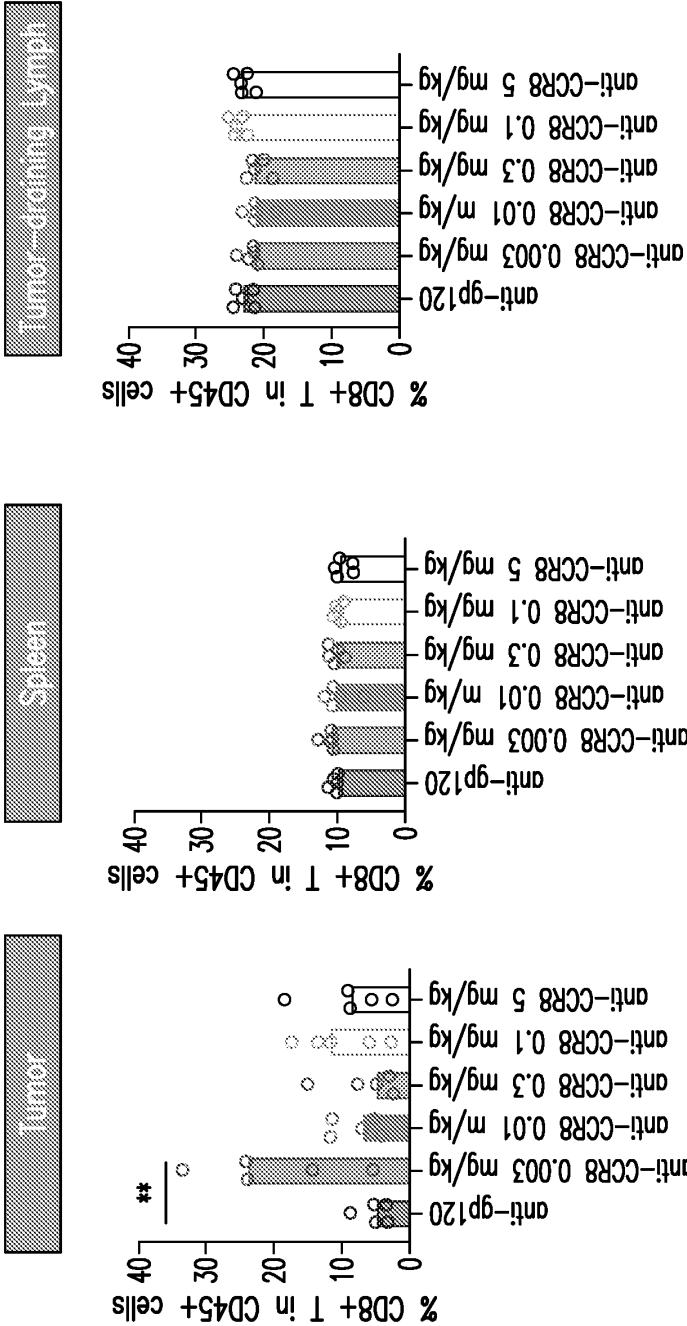


FIG. 17G

FIG. 17H

FIG. 17I

Potent tumor growth inhibition with Surrogate Mouse anti-CCR8 in CT26 colon cancer model

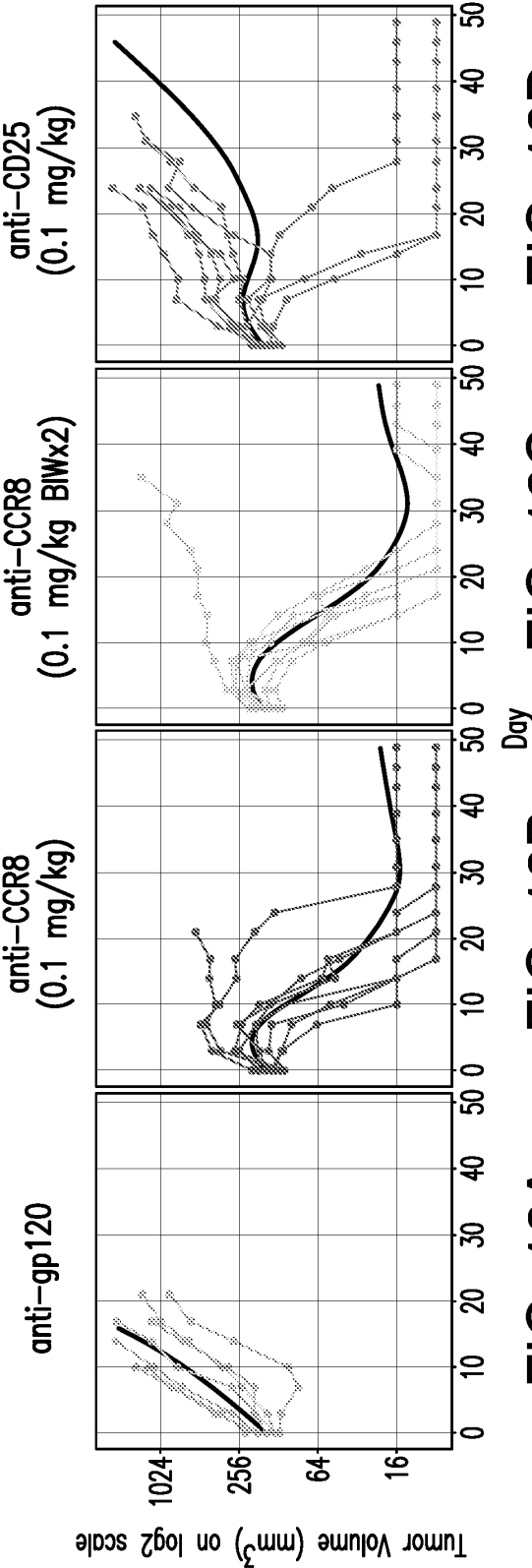


FIG. 18A FIG. 18B FIG. 18C FIG. 18D

Tumor growth inhibition with Surrogate Mouse anti-mCCR8 Ab
is dependent on Treg cell depletion, not Treg cell inhibition

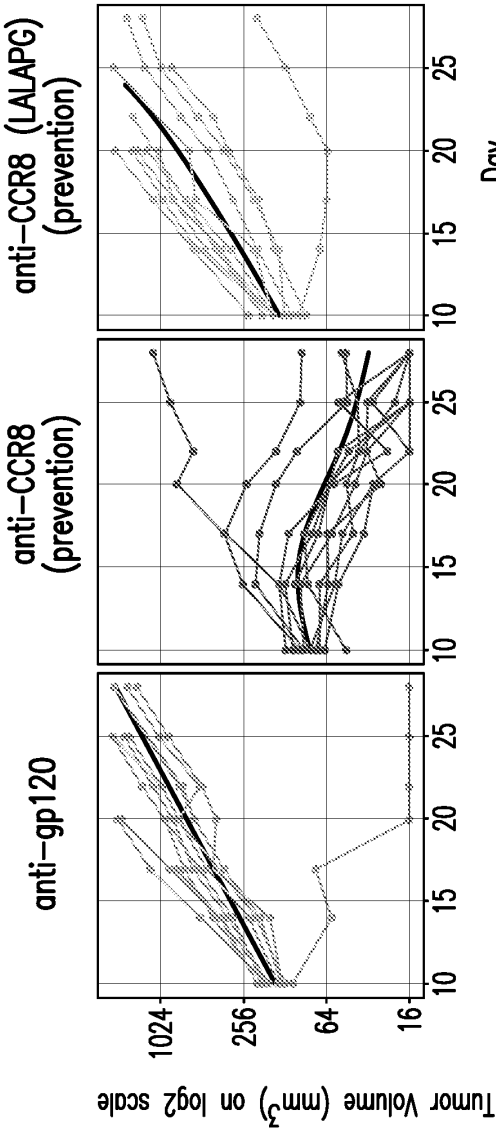


FIG. 19A FIG. 19B FIG. 19C

Tumor growth inhibition with Surrogate Mouse anti-mCCR8 Ab is dependent on Treg cell depletion, not Treg cell inhibition

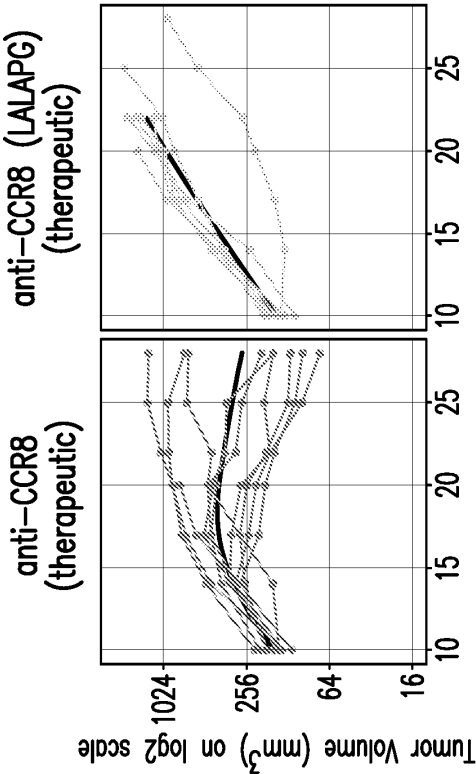
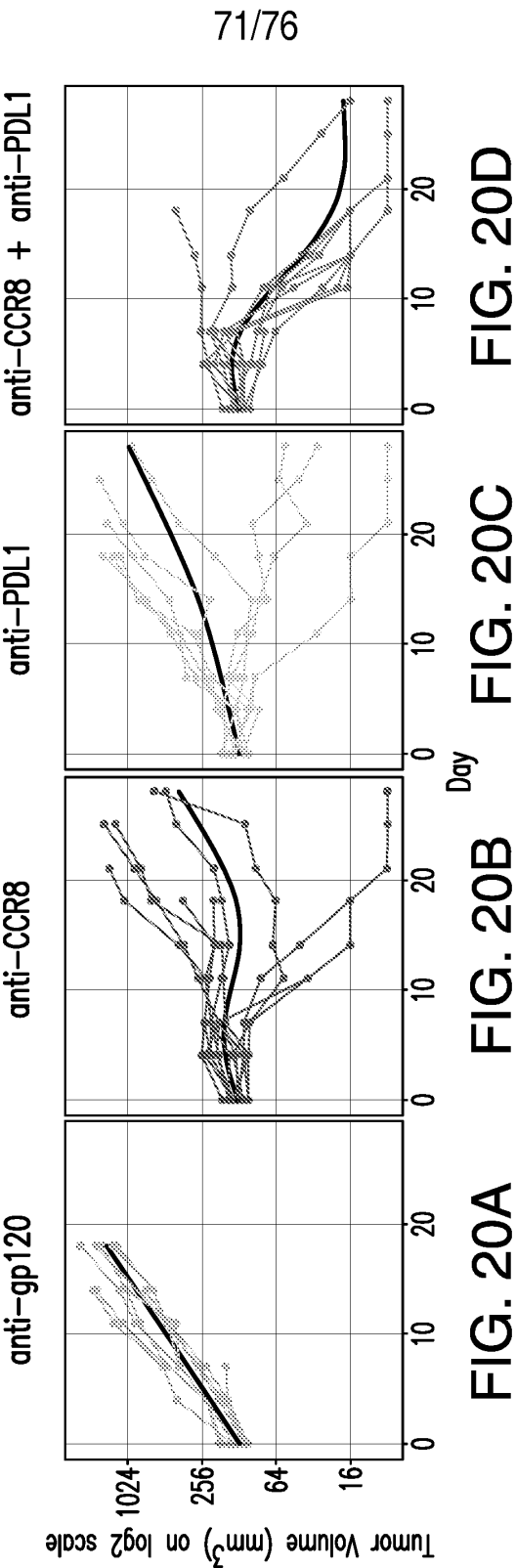


FIG. 19D FIG. 19E

Potent tumor growth inhibition with Surrogate Mouse anti-mCCR8 Ab
in combination with anti-PDL1 Ab in EMT6 breast cancer model



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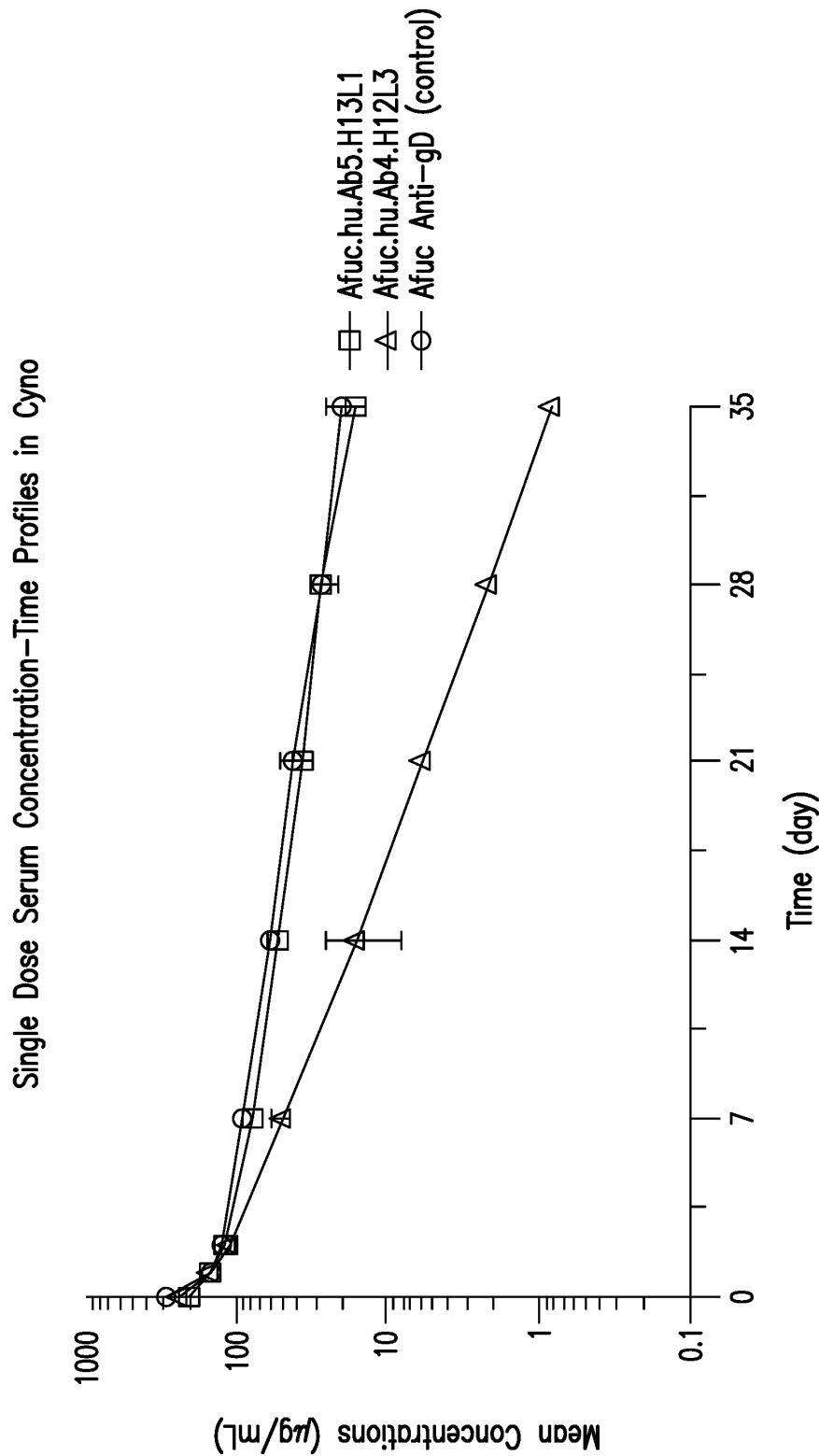
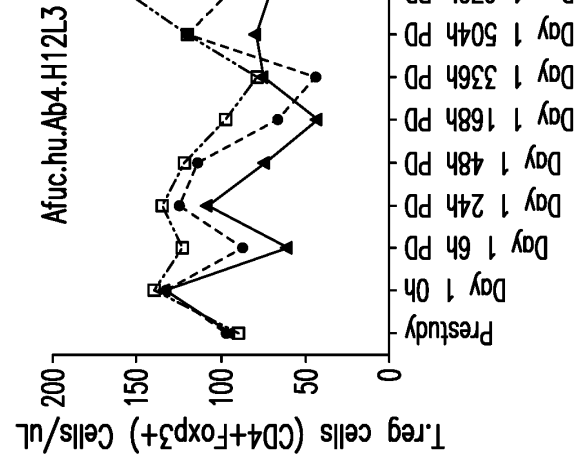
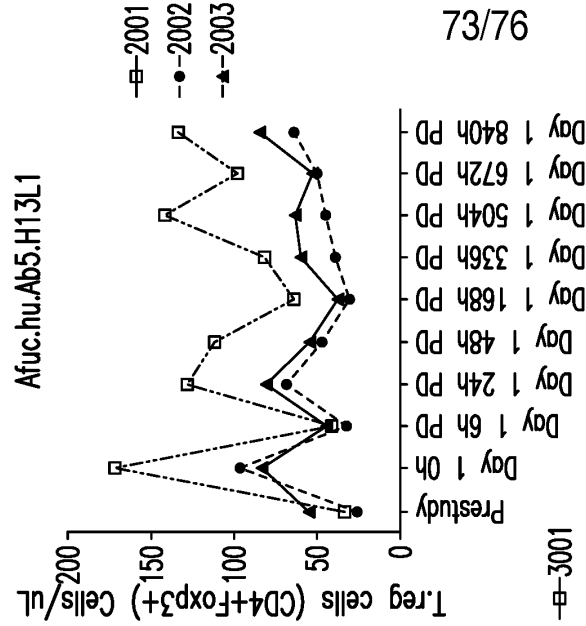
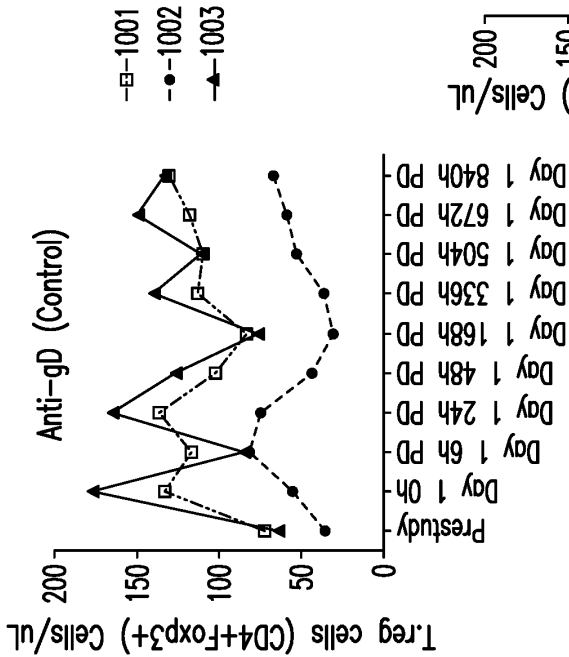


FIG. 21

No Reduction of Total Treg Absolute Counts in Cyno



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FIG. 22A

FIG. 22B

FIG. 22C

Control Group 1 – No Modulation of CCR8+FoxP3+ Treg Cells in Cyno

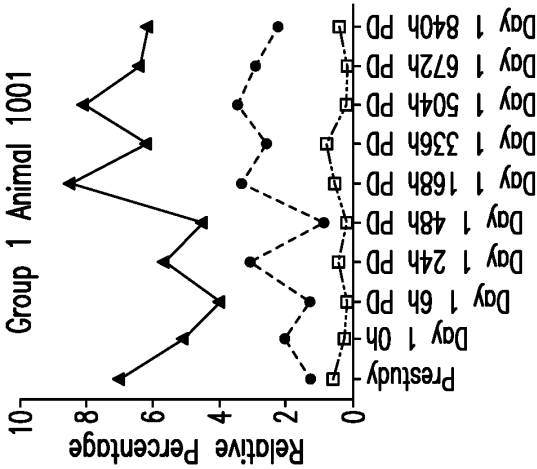


FIG. 23A

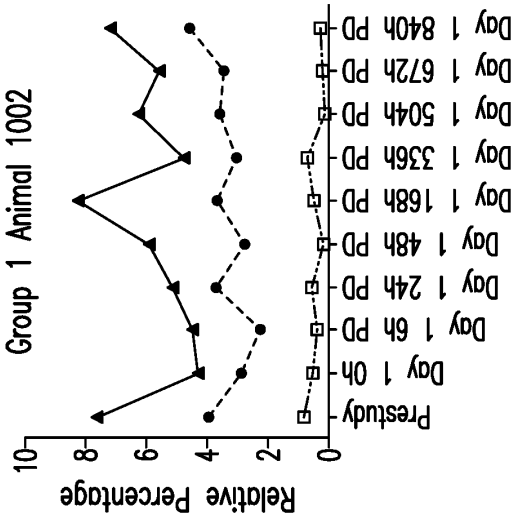


FIG. 23B

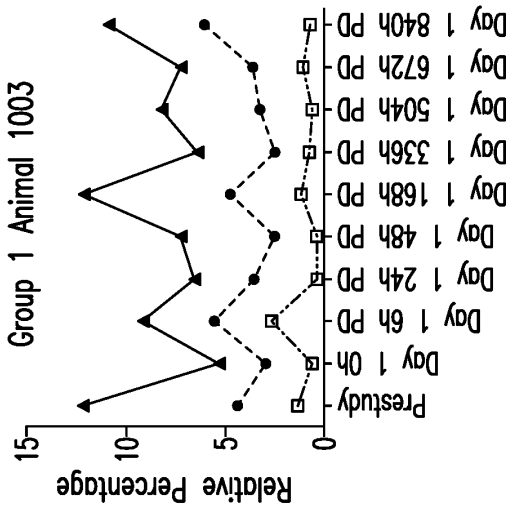
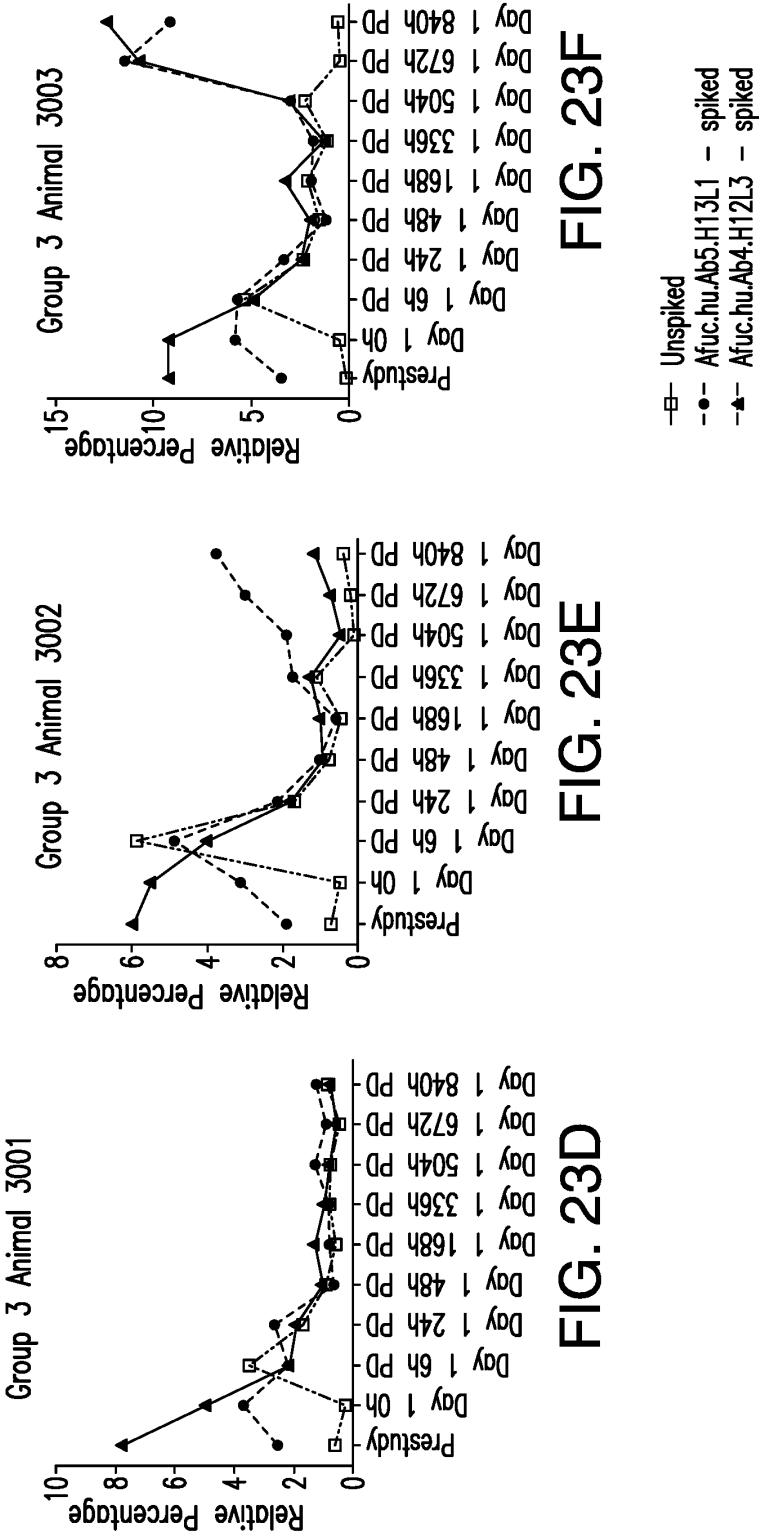


FIG. 23C

- Unspiked
- Afuc.hu.Ab5.H13L1-spiked
- ▲ Afuc.hu.Ab4.H12L3-spiked

Afuc.hu.Ab4.H12L3 – Decreased Frequency of CCR8+FoxP3+Treg Cells in Cyno



Afuc.hu.Ab5.H13L1 – Decreased Frequency of CCR8+FoxP3+ Treg Cells in Cyno

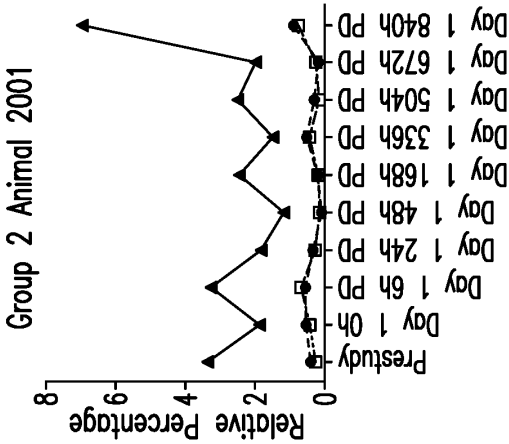


FIG. 23G

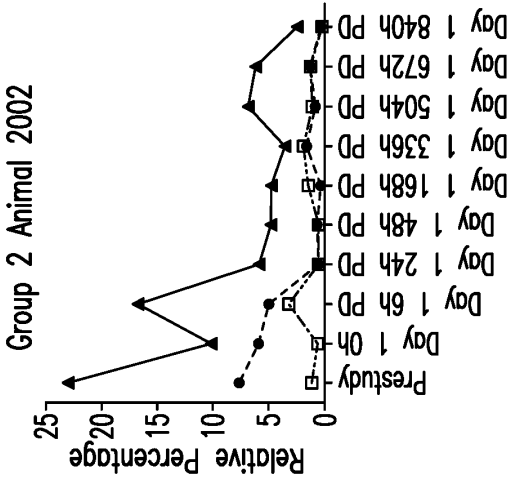


FIG. 23H

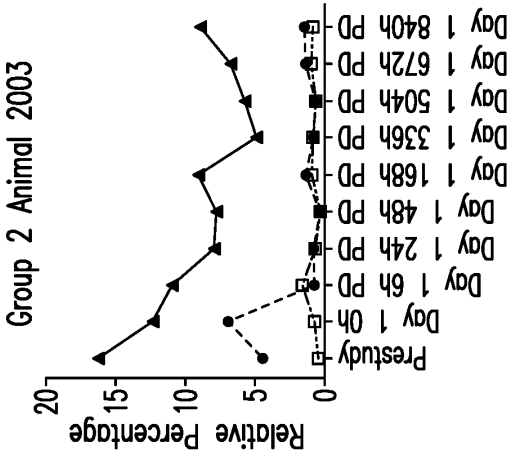


FIG. 23I

—□— Unspiked
—●— Afuc.hu.Ab5.H13L1 - spiked
—▲— Afuc.hu.Ab4.H12L3 - spiked