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VH	Framework 1										CDR 1																								
SEQ ID NO: 1	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
SEQ ID NO: 9	Q	V	Q	L	Q	Q	S	G	P	E	L	V	K	P	G	T	S	V	K	I	S	C	K	A	S	G	Y	S	F	T	T	Y	Y	I	H
	Q	V	Q	L	V	Q	S	G	A	E	V	K	K	P	G	S	S	V	K	V	S	C	K	A	S	G	Y	S	F	T	T	Y	Y	I	H
	Framework 2										CDR 2																								
SEQ ID NO: 1	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	52a	53	54	55	56	57	58	59	60	61	62	63	64	65				
SEQ ID NO: 9	W	V	K	Q	R	P	G	Q	G	L	E	W	I	G	W	F	F	P	G	S	G	N	I	K	Y	N	E	K	F	K	G				
	W	V	R	Q	A	P	G	Q	G	L	E	W	M	G	W	F	F	P	G	S	G	N	I	K	Y	N	E	K	F	K	G				
	Framework 3										CDR 3																								
SEQ ID NO: 1	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94			
SEQ ID NO: 9	K	A	T	L	T	A	D	T	S	S	S	T	A	Y	M	Q	L	S	S	L	T	S	E	E	S	A	V	Y	F	C	A	G			
	R	V	T	I	T	A	D	I	S	T	S	T	A	Y	M	E	L	S	S	L	R	S	E	D	T	A	V	Y	C	A	G				
	Framework 4										CDR 4																								
SEQ ID NO: 1	95	96	97	98	99	100	100a	100b	101	102	103	104	105	106	107	108	109	110	111	112	113														
SEQ ID NO: 9	S	Y	Y	S	Y	D	V	L	D	Y	W	G	H	G	T	T	L	T	V	S	S														
	S	Y	Y	S	Y	D	V	L	D	Y	W	G	Q	G	T	T	V	T	V	S	S														

FIG. 1A

VL	Framework 1										CDR 1																							
SEQ ID NO: 2	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
SEQ ID NO: 10	D	I	L	M	T	Q	S	Q	K	F	M	S	T	S	L	G	D	R	V	S	V	S	C	K	A	S	Q	N	V	G	I	N	V	V
SEQ ID NO: 11	D	I	Q	M	T	Q	S	P	S	F	L	S	A	S	V	G	D	R	V	T	I	T	C	K	A	S	Q	N	V	G	I	N	V	V
SEQ ID NO: 11	D	I	Q	M	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	K	A	S	Q	N	V	G	I	N	V	V
Framework 2															CDR 2																			
SEQ ID NO: 2	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56												
SEQ ID NO: 10	W	H	Q	Q	K	P	G	Q	S	P	K	A	L	I	Y	S	S	S	H	R	Y	S												
SEQ ID NO: 11	W	H	Q	Q	K	P	G	K	A	P	K	A	L	I	Y	S	S	S	H	R	Y	S												
SEQ ID NO: 11	W	H	Q	Q	K	P	G	K	V	P	K	A	L	I	Y	S	S	S	H	R	Y	S												
Framework 3																																		
SEQ ID NO: 2	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	85	86	87	88		
SEQ ID NO: 10	G	V	P	D	R	F	T	G	S	G	S	G	T	D	F	T	L	T	I	N	N	V	Q	S	E	D	L	A	E	Y	F	C		
SEQ ID NO: 11	G	V	P	S	R	F	S	G	S	G	S	G	T	E	F	T	L	T	I	S	S	L	Q	P	E	D	F	A	T	Y	F	C		
SEQ ID NO: 11	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	V	A	T	Y	F	C		
CDR 3																																		
Framework 4																																		
SEQ ID NO: 2	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107															
SEQ ID NO: 10	Q	Q	F	K	S	Y	P	L	T	F	G	A	G	T	K	L	E	L	K															
SEQ ID NO: 11	Q	Q	F	K	S	Y	P	L	T	F	G	Q	Q	T	K	L	E	I	K															
SEQ ID NO: 11	Q	Q	F	K	S	Y	P	L	T	F	G	Q	Q	T	K	L	E	I	K															

FIG. 1B

VH	Framework 1																								CDR 1										
SEQ ID NO: 15	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
SEQ ID NO: 25	D	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	R	K	L	S	C	A	A	S	G	F	T	F	S	N	F	G	M	H
SEQ ID NO: 23	Q	V	Q	L	V	E	S	G	G	G	V	V	Q	P	G	R	S	L	R	L	S	C	A	A	S	G	F	T	F	S	N	F	G	M	H
SEQ ID NO: 24	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	T	F	S	N	F	G	M	H
SEQ ID NO: 24	E	V	Q	L	V	E	S	G	G	G	L	V	Q	P	G	G	S	L	R	L	S	C	A	A	S	G	F	T	F	S	N	F	G	M	H
	Framework 2																								CDR 2										
SEQ ID NO: 15	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	52a	53	54	55	56	57	58	59	60	61	62	63	64	65				
SEQ ID NO: 25	W	V	R	Q	A	P	D	K	G	L	E	W	V	A	Y	I	S	S	G	S	S	T	I	Y	Y	A	D	T	L	K	G				
SEQ ID NO: 23	W	V	R	Q	A	P	G	K	G	L	E	W	V	A	Y	I	S	S	G	S	S	T	I	Y	Y	A	D	T	L	K	G				
SEQ ID NO: 24	W	V	R	Q	A	P	G	K	G	L	E	W	V	S	Y	I	S	S	G	S	S	T	I	Y	Y	A	D	T	L	K	G				
SEQ ID NO: 24	W	V	R	Q	A	P	G	K	G	L	E	W	V	S	Y	I	S	S	G	S	S	T	I	Y	Y	A	D	T	L	K	G				
	Framework 3																																		
SEQ ID NO: 15	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	82a	82b	82c	83	84	85	86	87	88	89	90	91	92	93	94			
SEQ ID NO: 25	R	F	T	I	S	R	D	N	P	K	N	T	L	F	L	Q	M	T	S	L	R	S	E	D	T	A	M	Y	Y	C	A	R			
SEQ ID NO: 23	R	F	T	I	S	R	D	N	S	K	N	T	L	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R			
SEQ ID NO: 24	R	F	T	I	S	R	D	N	A	K	N	S	L	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R			
SEQ ID NO: 24	R	F	T	I	S	R	D	N	S	K	N	T	L	Y	L	Q	M	N	S	L	R	A	E	D	T	A	V	Y	Y	C	A	R			
	CDR 3																																		
SEQ ID NO: 15	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113																
SEQ ID NO: 25	R	G	E	G	A	M	D	Y	W	G	Q	G	T	S	V	T	V	S	S																
SEQ ID NO: 23	R	G	E	G	A	M	D	Y	W	G	Q	G	T	T	V	T	V	S	S																
SEQ ID NO: 24	R	G	E	G	A	M	D	Y	W	G	Q	G	T	T	V	T	V	S	S																
SEQ ID NO: 24	R	G	E	G	A	M	D	Y	W	G	Q	G	T	T	V	T	V	S	S																

FIG. 2A

VL		Framework 1																				CDR 1													
		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
SEQ ID NO: 16		E	N	V	L	T	Q	S	P	A	I	M	S	A	S	L	G	E	K	V	T	M	S	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ ID NO: 26		D	N	Q	L	T	Q	S	P	S	F	L	S	A	S	V	G	D	R	V	T	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ ID NO: 27		D	N	Q	L	T	Q	S	P	S	S	L	S	A	S	V	G	D	R	V	T	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ ID NO: 28		E	N	V	L	T	Q	S	P	A	T	L	S	V	S	P	G	E	R	A	T	L	S	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ ID NO: 29		Q	N	V	L	T	Q	P	P	S	-	A	S	G	T	P	G	Q	R	V	T	I	S	C	R	A	S	S	S	V	-	N	Y	I	Y
SEQ ID NO: 30		S	N	E	L	T	Q	P	P	S	-	V	S	V	S	P	G	Q	T	A	R	I	T	C	R	A	S	S	S	V	-	N	Y	I	Y

		Framework 2																CDR 2									
		35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
SEQ ID NO: 16		W	Y	Q	Q	K	S	D	A	S	P	K	L	W	I	Y	Y	T	S	N	L	A	P				
SEQ ID NO: 26		W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P				
SEQ ID NO: 27		W	Y	Q	Q	K	P	G	K	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P				
SEQ ID NO: 28		W	Y	Q	Q	K	P	G	Q	A	P	R	L	L	I	Y	Y	T	S	N	L	A	P				
SEQ ID NO: 29		W	Y	Q	Q	L	P	G	T	A	P	K	L	L	I	Y	Y	T	S	N	L	A	P				
SEQ ID NO: 30		W	Y	Q	Q	K	S	G	Q	A	P	V	L	V	I	Y	Y	T	S	N	L	A	P				

FIG. 2B

Framework 3																			
SEQ ID NO: 16	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
	G	V	P	T	R	F	S	G	S	G	S	G	N	S	Y	S	L	T	I
SEQ ID NO: 26	G	V	P	S	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I
SEQ ID NO: 27	G	V	P	S	R	F	S	G	S	G	S	G	N	D	Y	T	L	T	I
SEQ ID NO: 28	G	I	P	A	R	F	S	G	S	G	S	G	N	E	Y	T	L	T	I
SEQ ID NO: 29	G	V	P	D	R	F	S	G	S	G	S	G	N	S	Y	S	L	A	I
SEQ ID NO: 30	G	I	P	E	R	F	S	G	S	G	S	G	N	M	Y	T	L	T	I
Framework 4																			
SEQ ID NO: 16	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107
	Q	Q	F	T	S	S	P	F	T	F	G	S	G	T	K	L	E	I	K
SEQ ID NO: 26	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K
SEQ ID NO: 27	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K
SEQ ID NO: 28	Q	Q	F	T	S	S	P	F	T	F	G	Q	G	T	K	L	E	I	K
SEQ ID NO: 29	Q	Q	F	T	S	S	P	F	T	F	G	T	G	T	K	V	T	V	L
SEQ ID NO: 30	Q	Q	F	T	S	S	P	F	T	F	G	T	G	T	K	V	T	V	L

FIG. 2B
(Continued)

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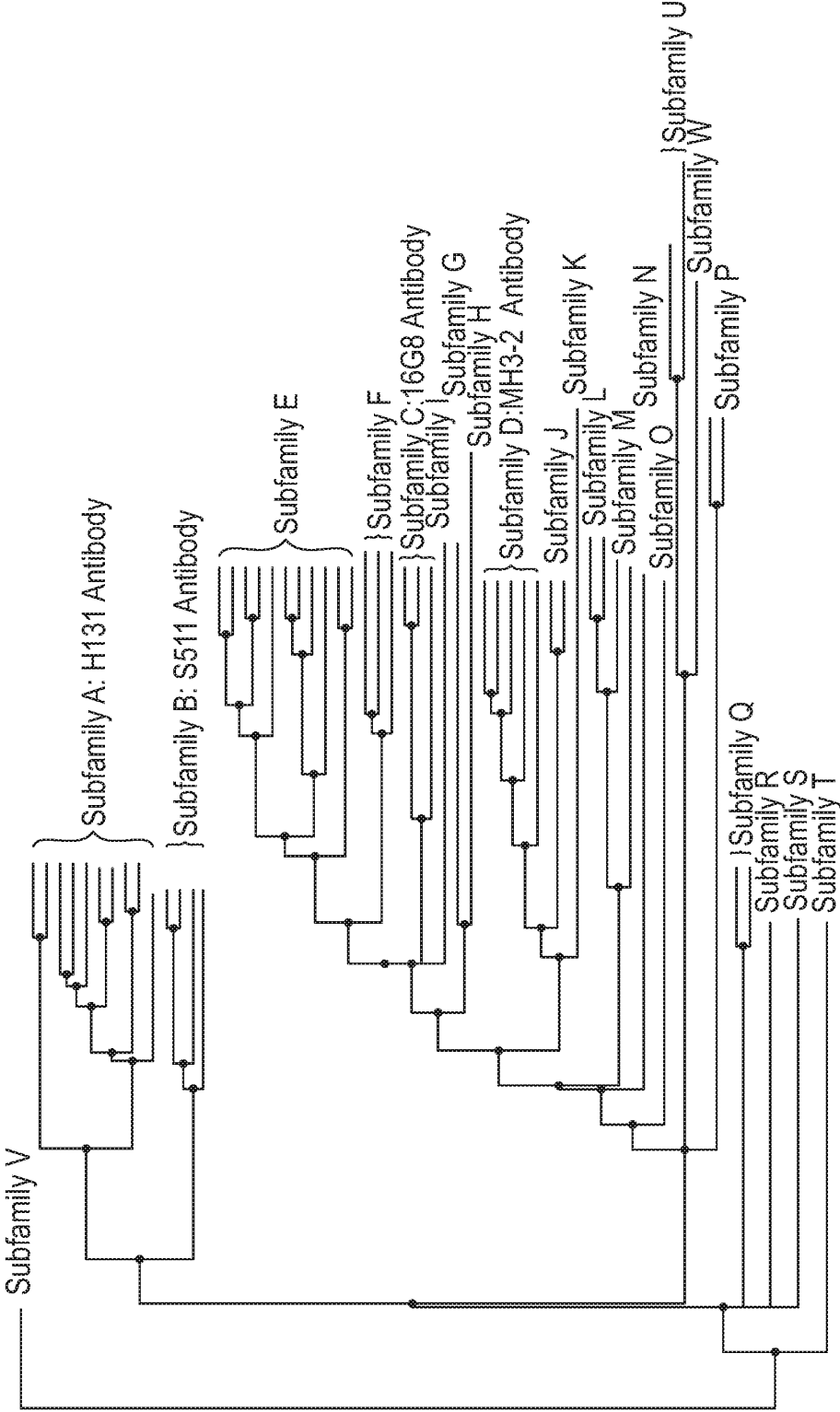


FIG. 3

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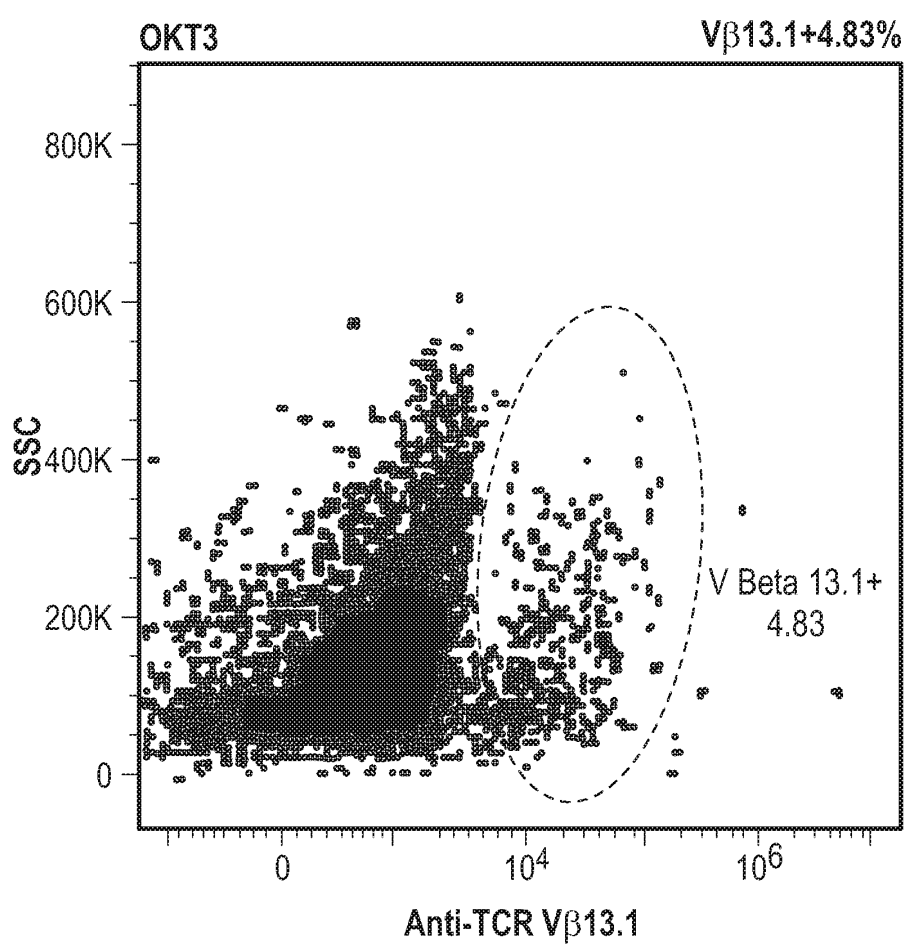


FIG. 4A

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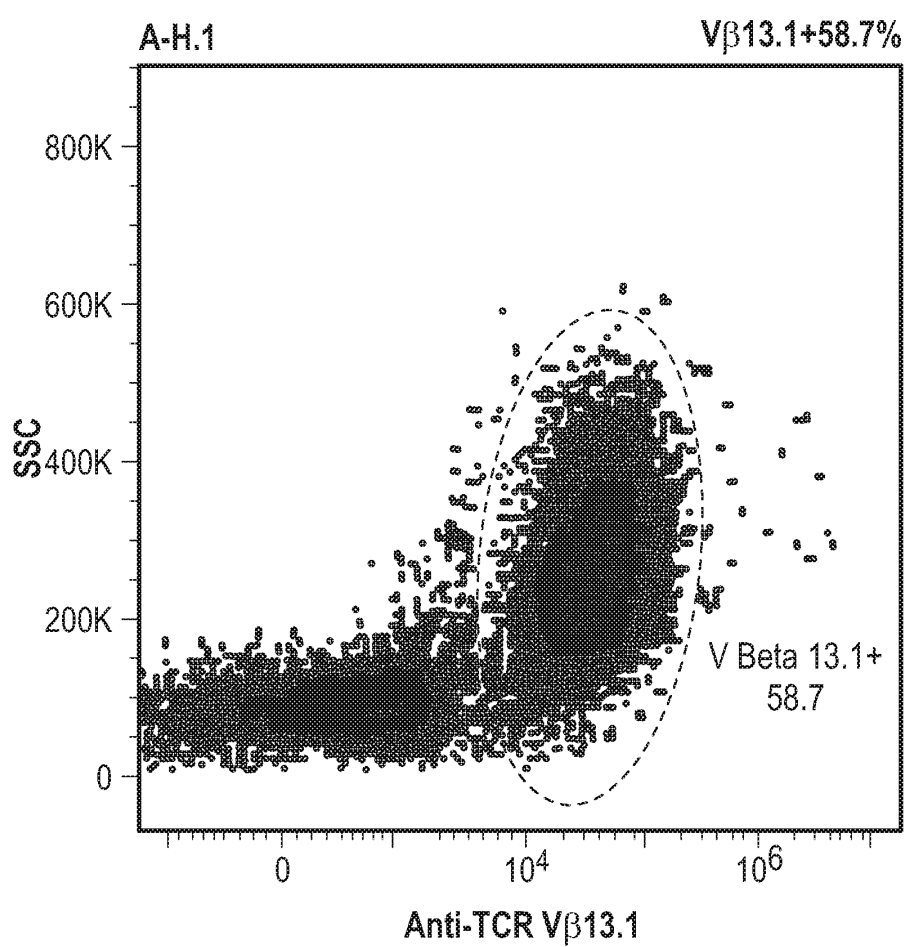


FIG. 4A
(Continued)

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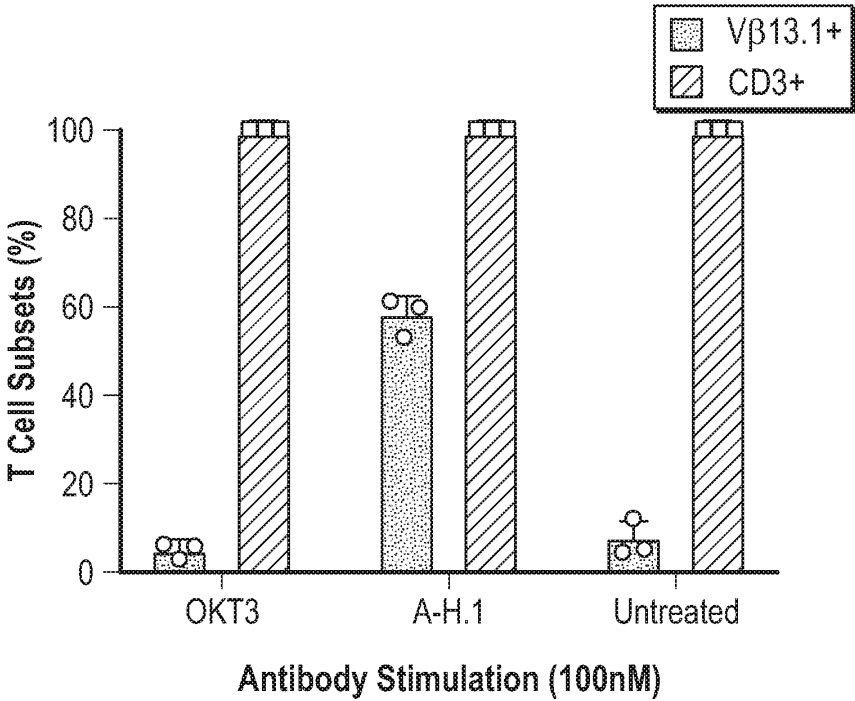


FIG. 4B

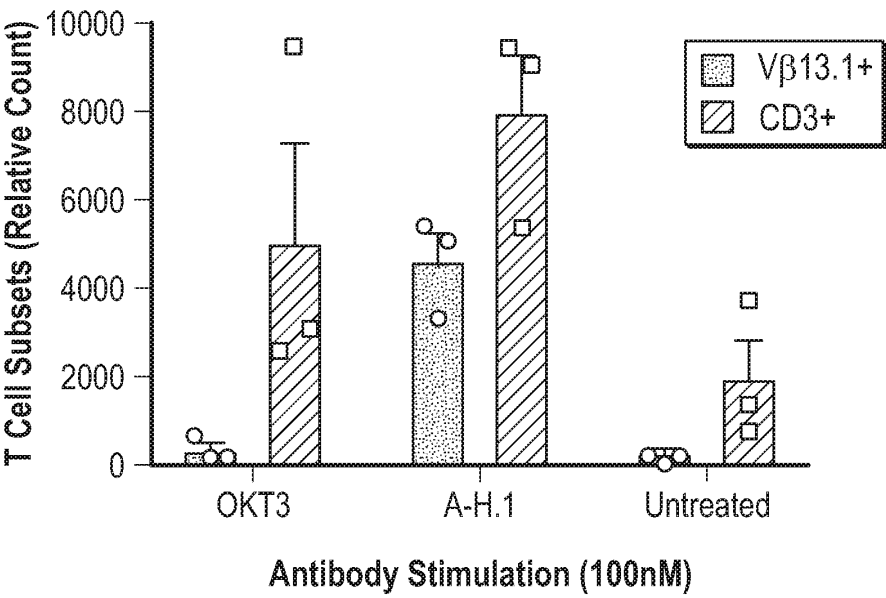


FIG. 4C

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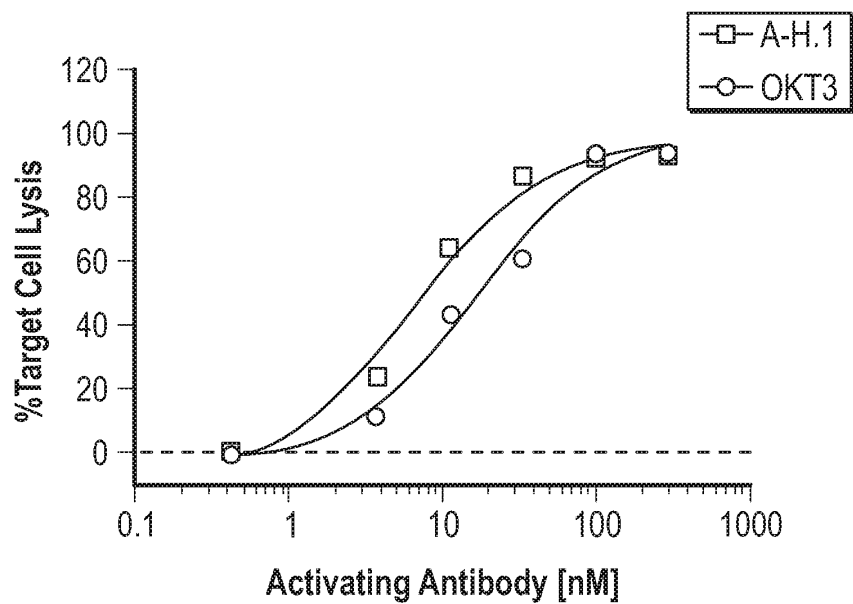


FIG. 5A

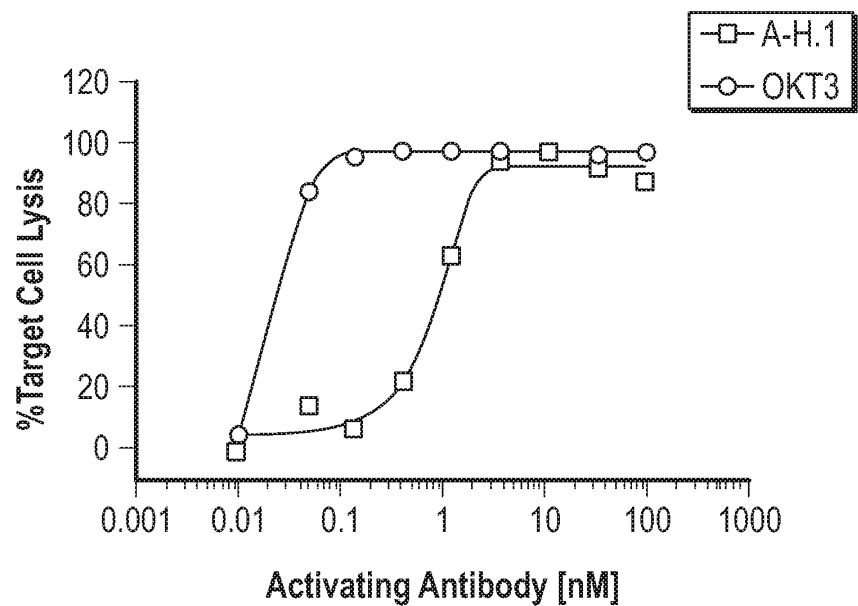


FIG. 5B

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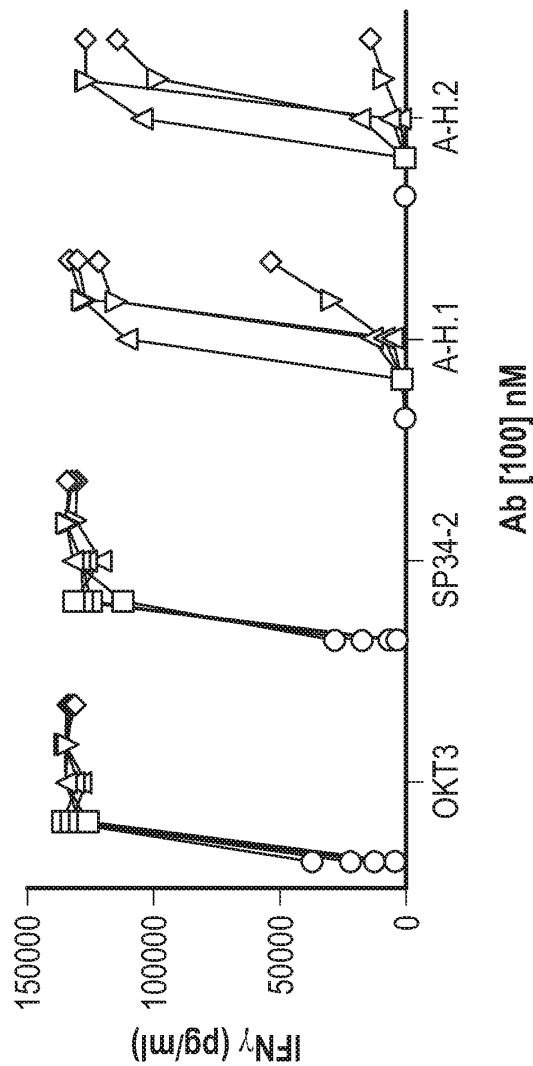
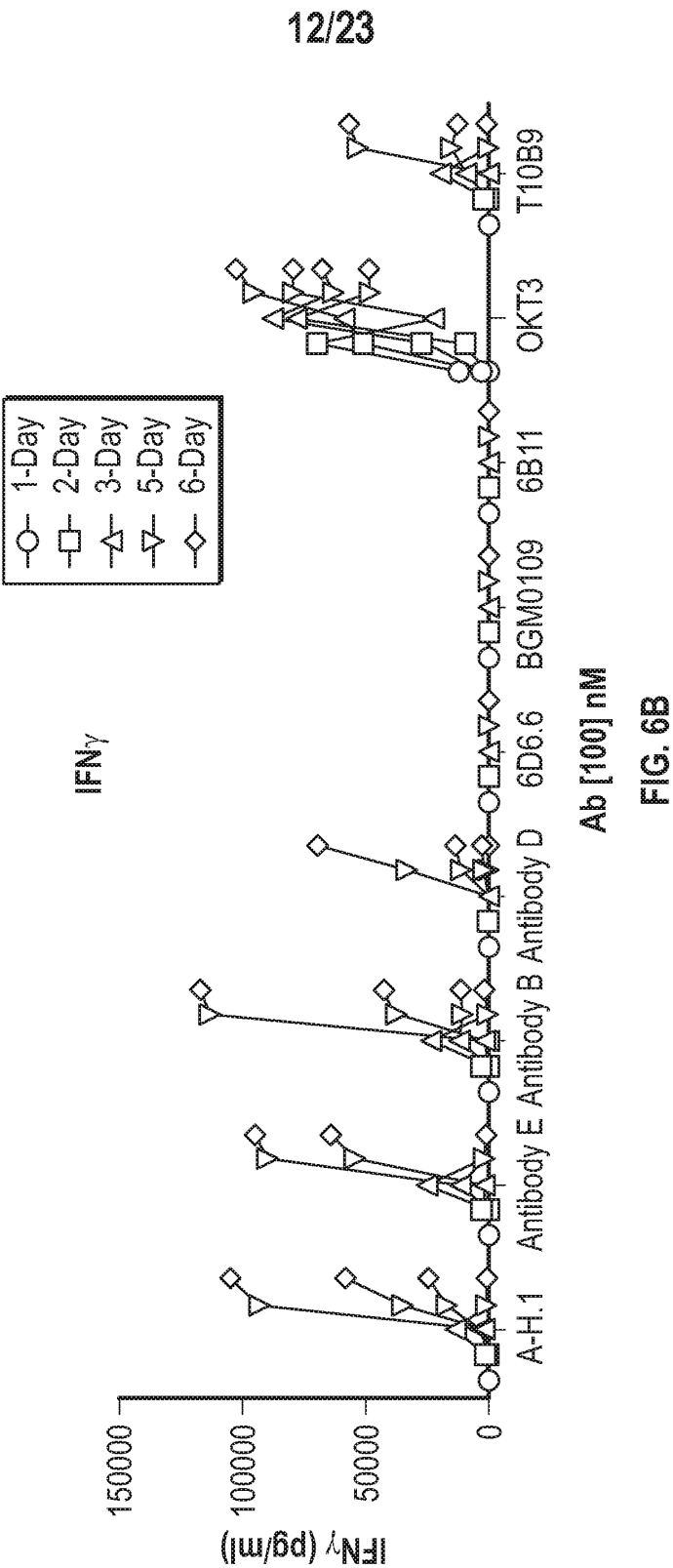


FIG. 6A



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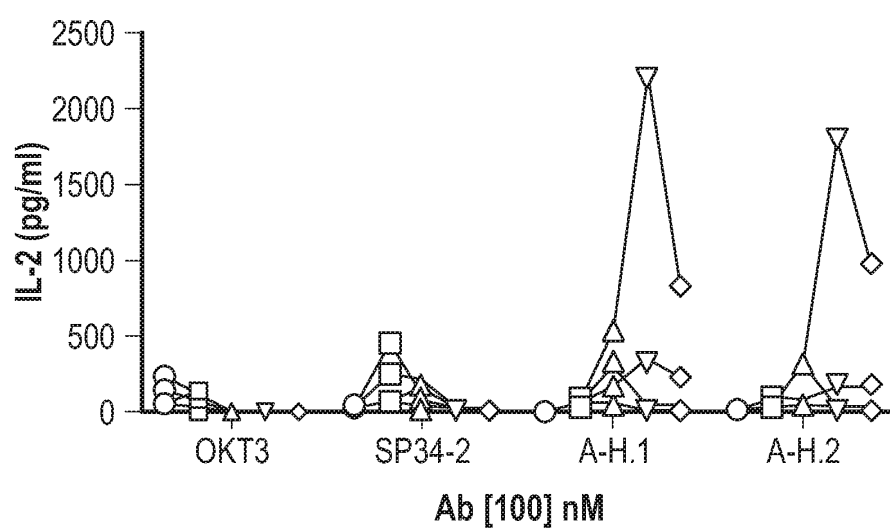


FIG. 7A

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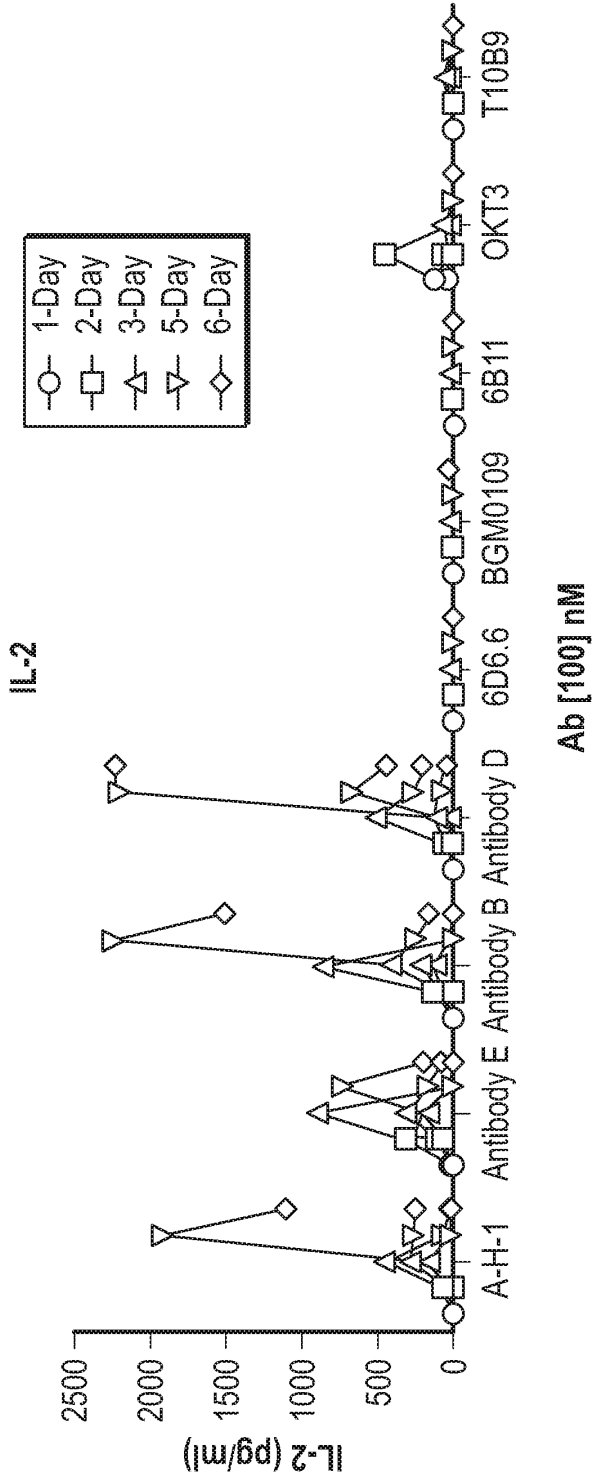


FIG. 7B

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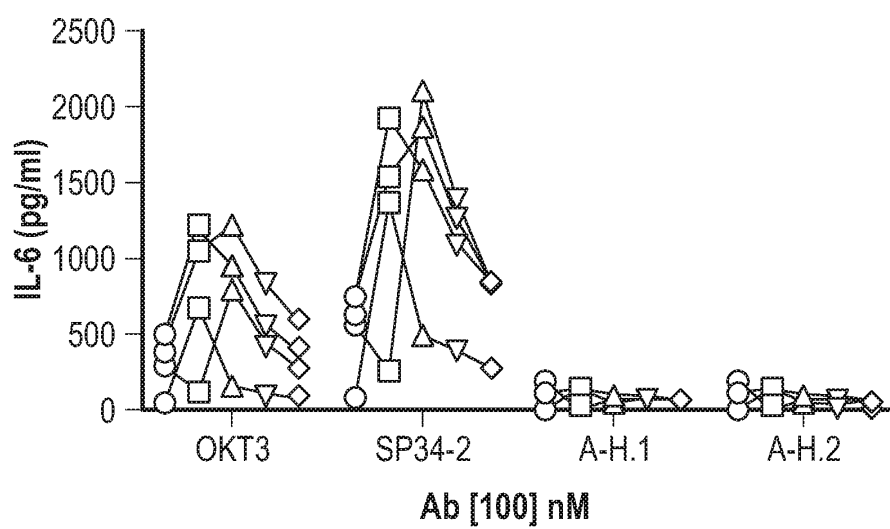
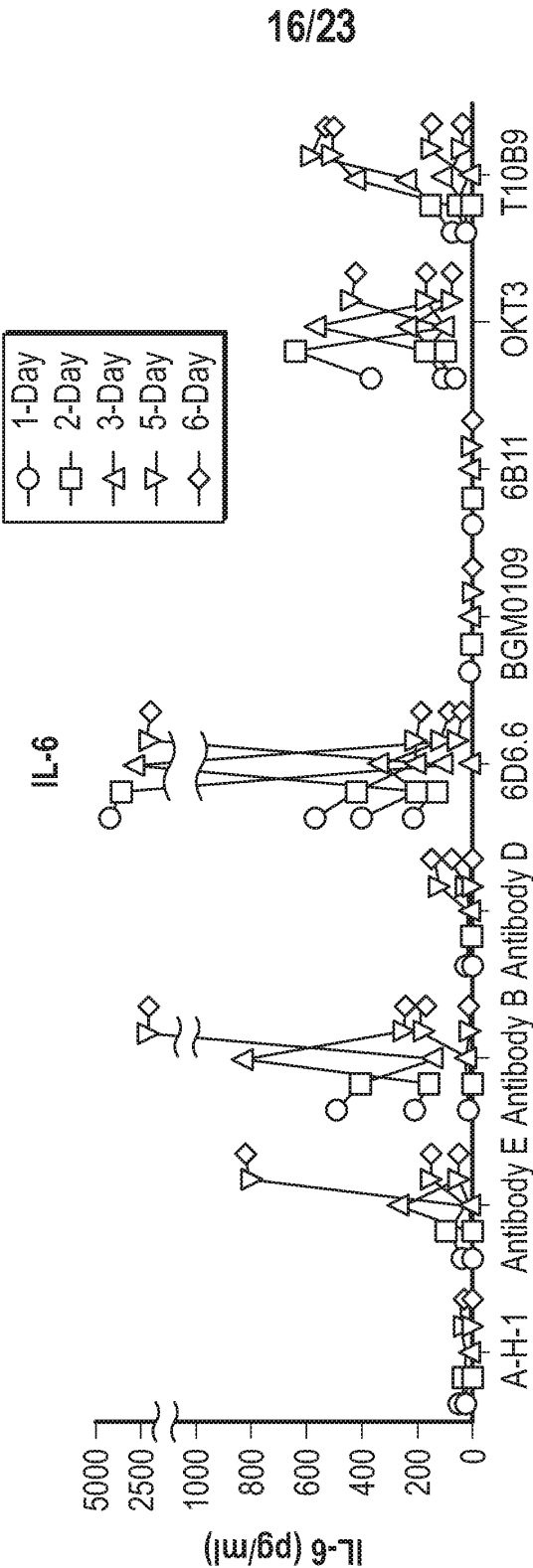
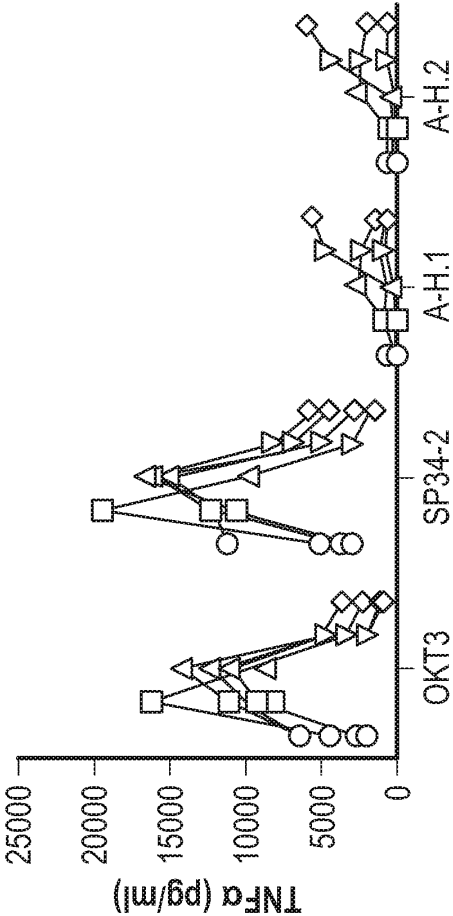


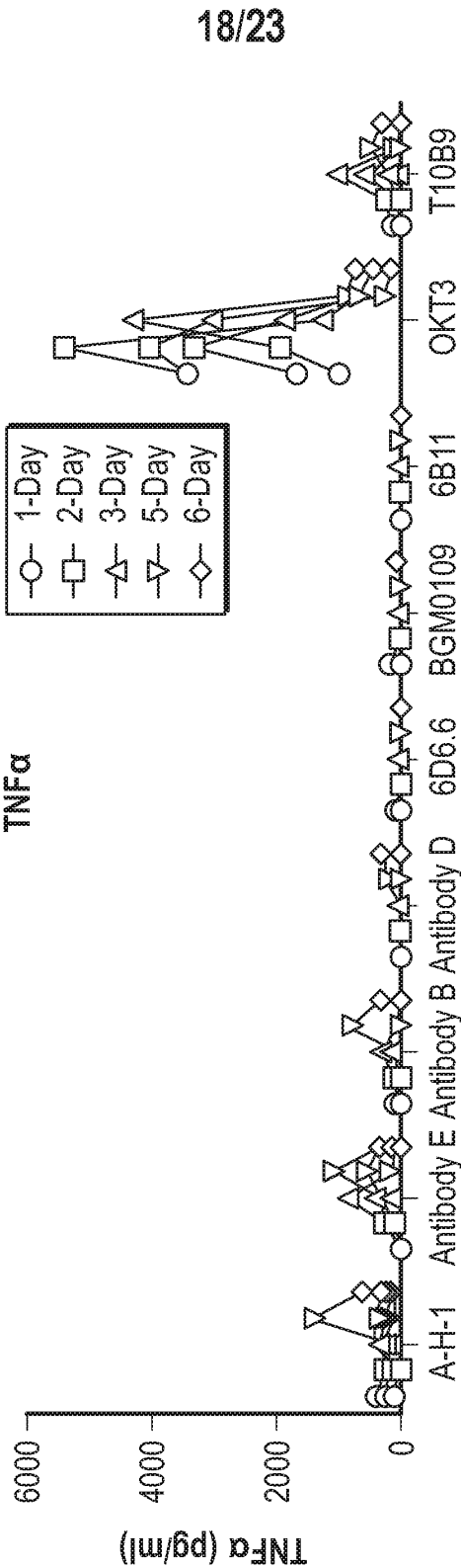
FIG. 8A

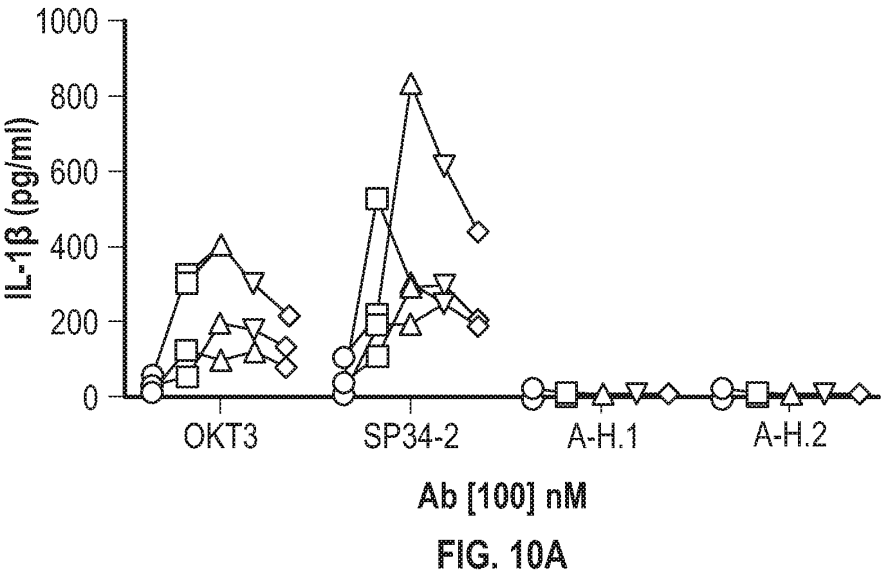


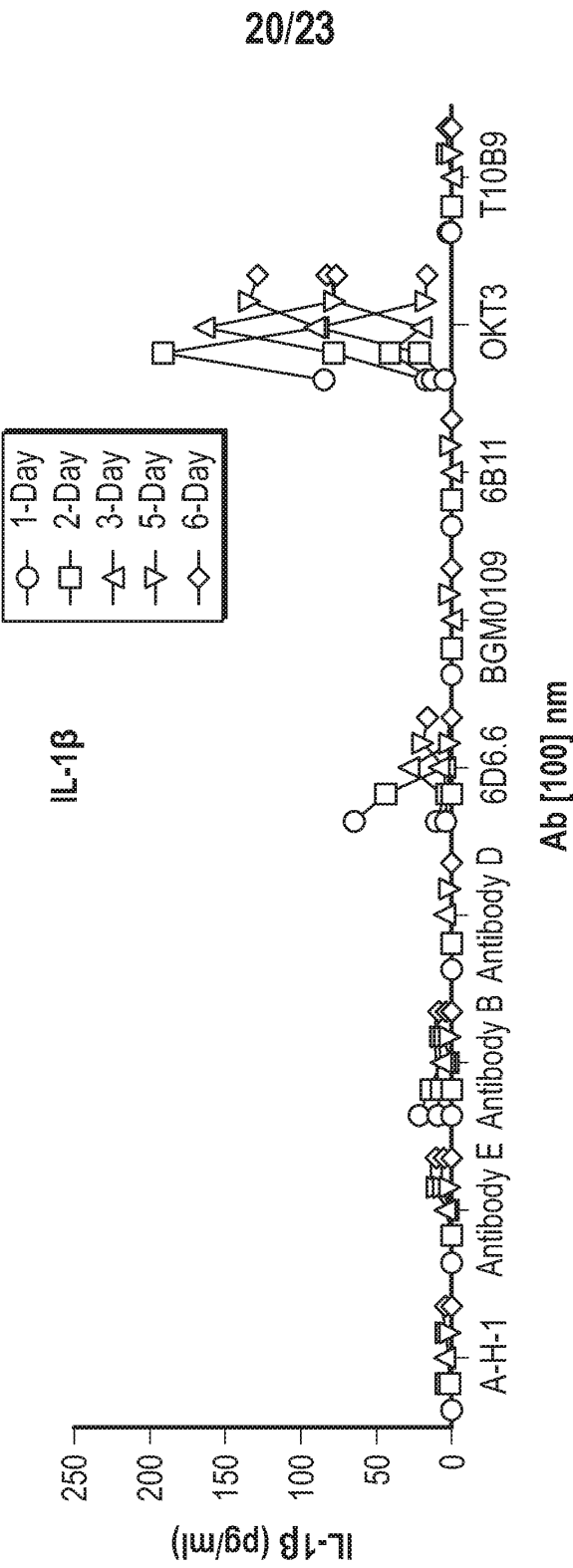


Ab [100] nM

FIG. 9A







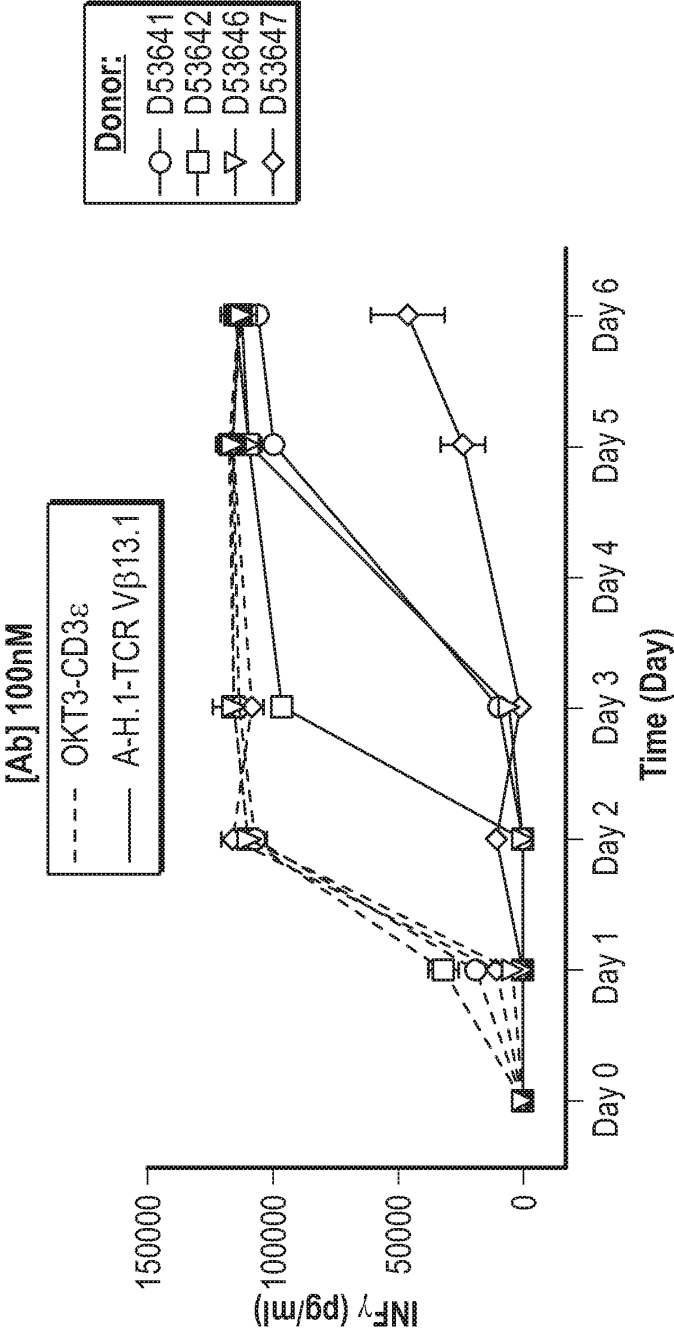


FIG. 11A

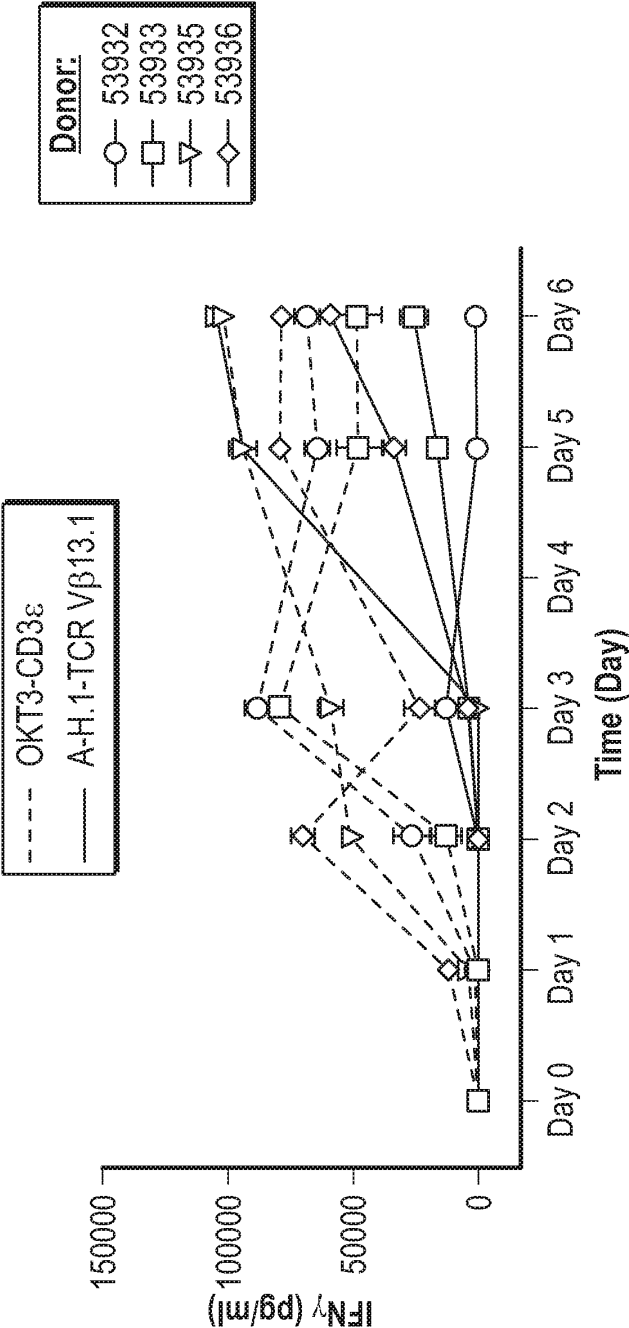


FIG. 11B

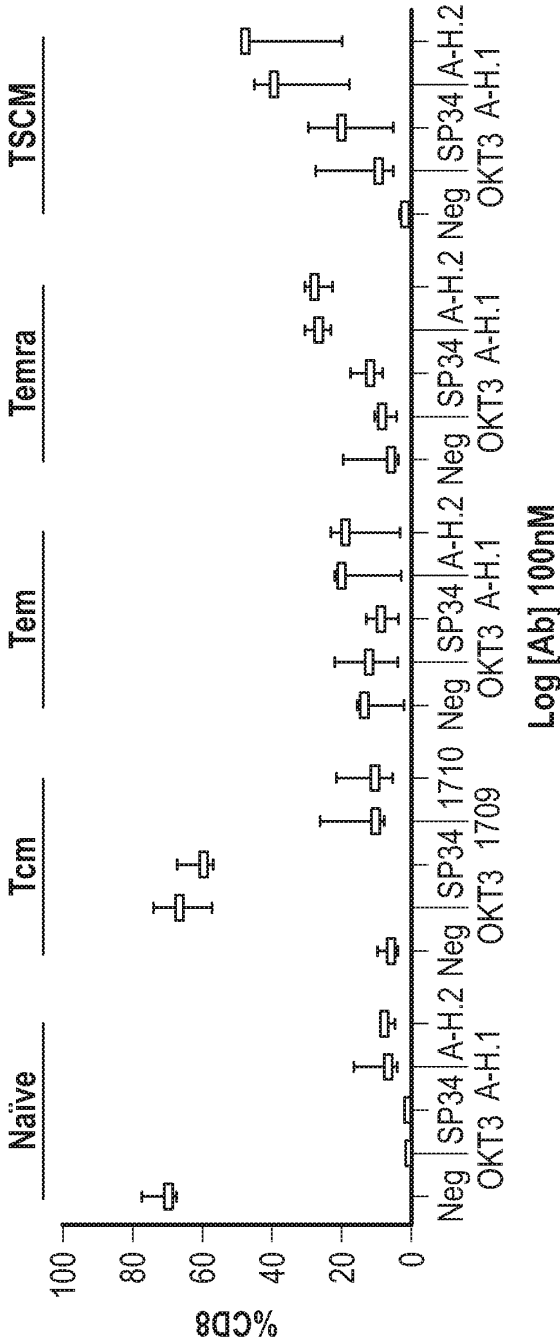


FIG. 12