

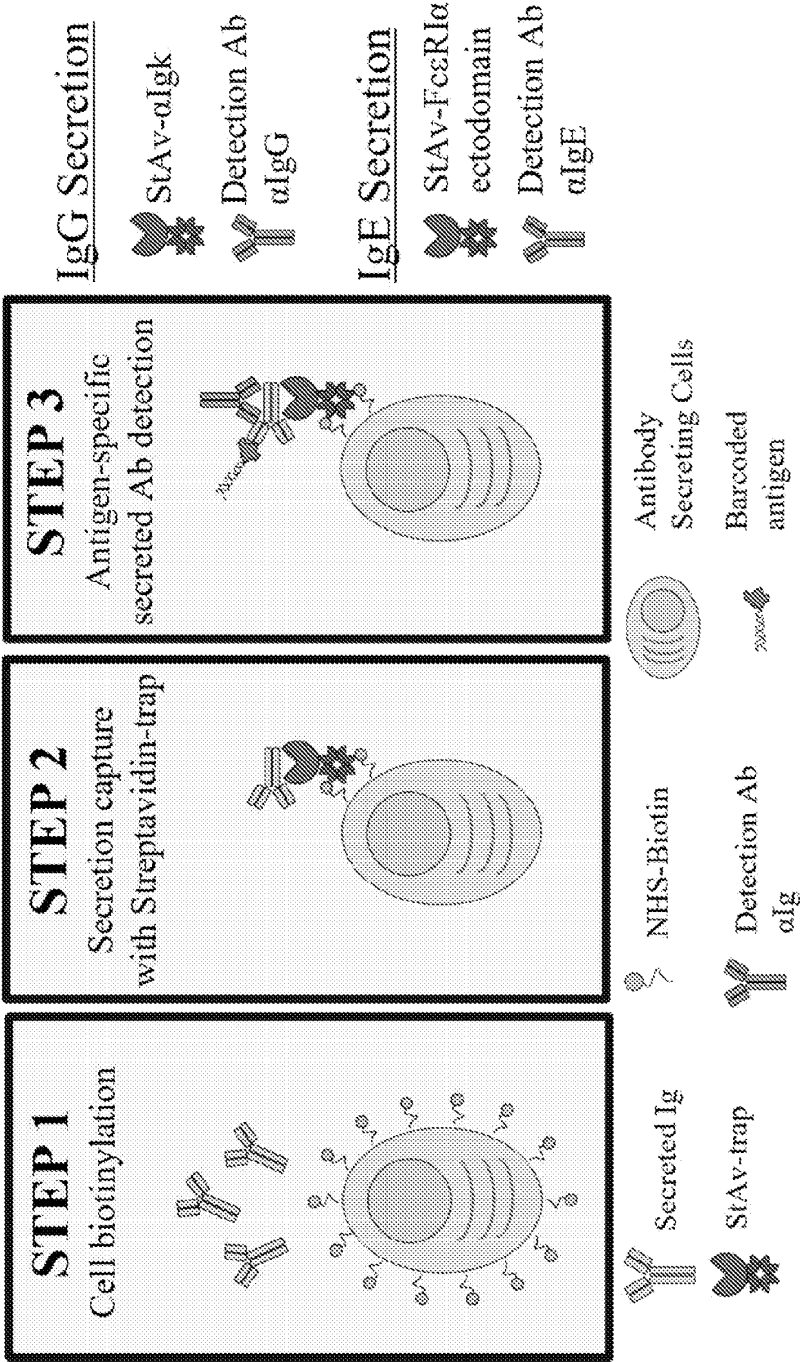


FIG. 1

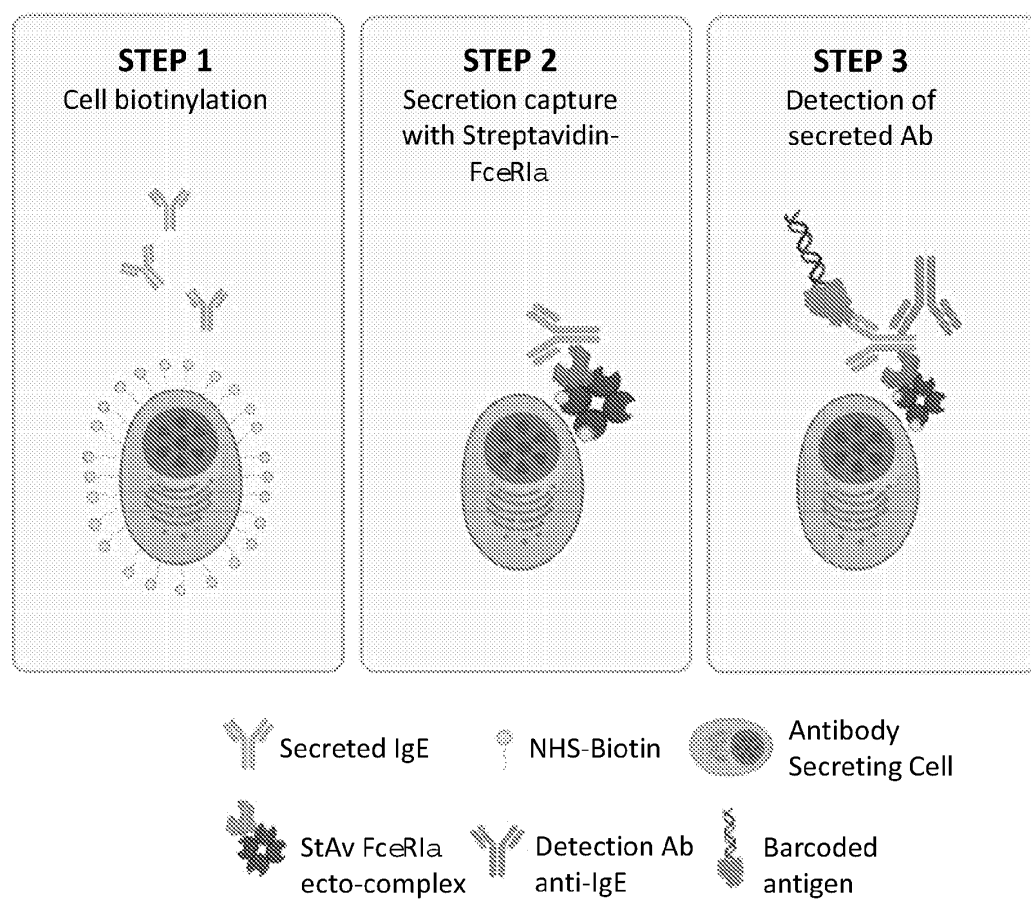


FIG. 2

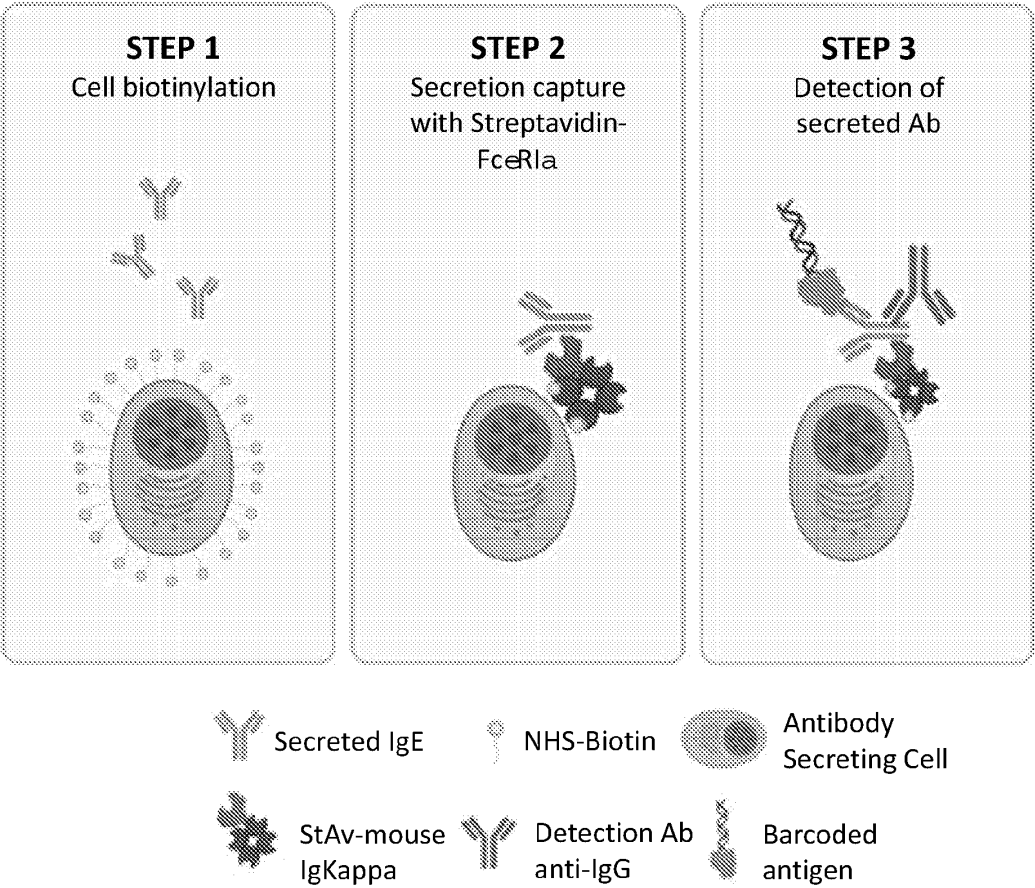


FIG. 3

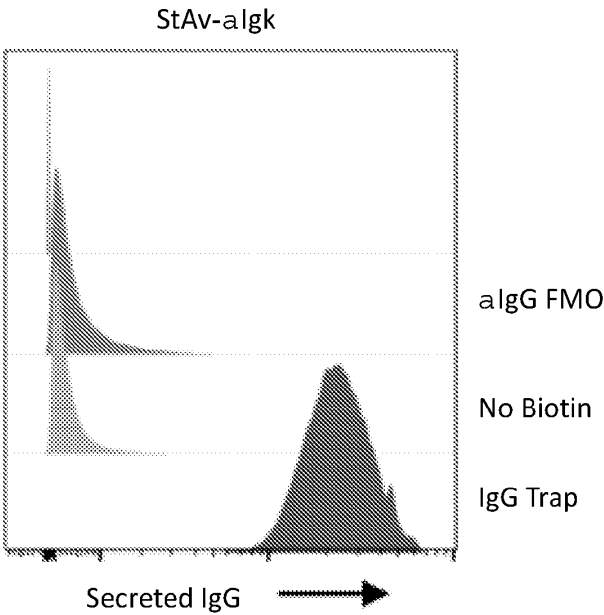


FIG. 4A

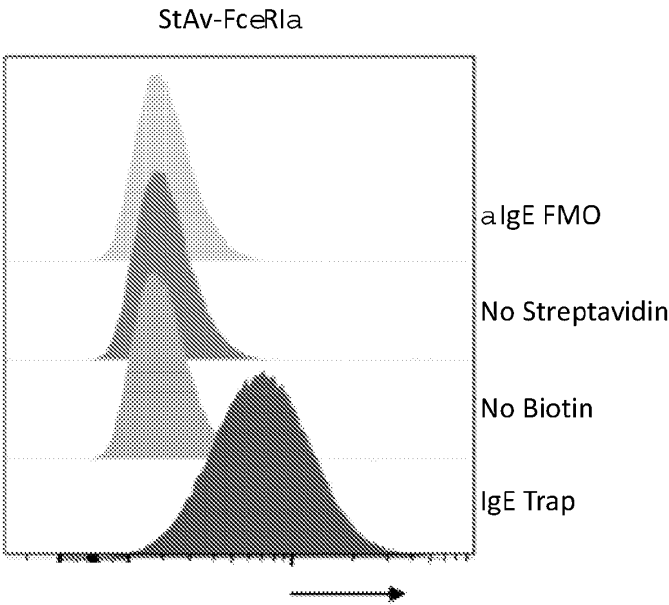


FIG. 4B

- Secreted IgE, but not Surface IgE (BCR) detected on U266 cells

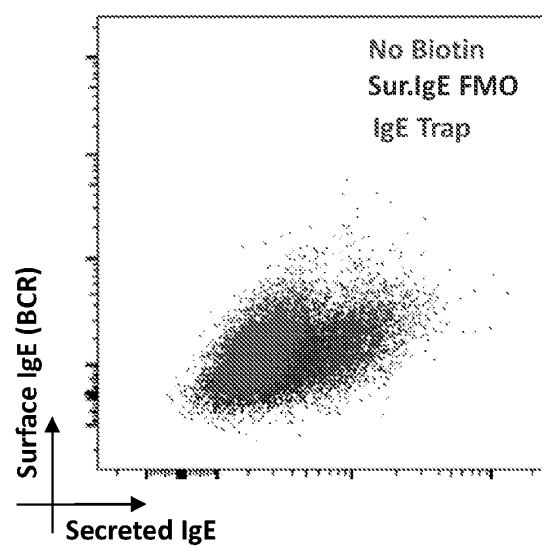


FIG. 4C

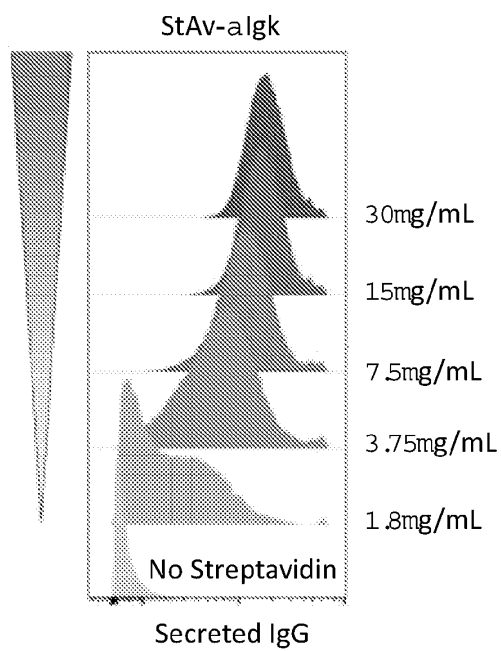


FIG. 4D

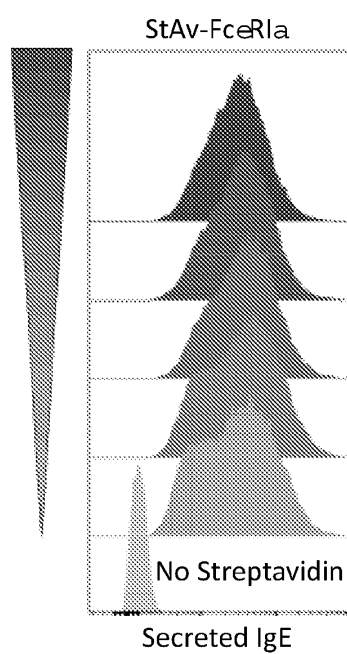


FIG. 4E

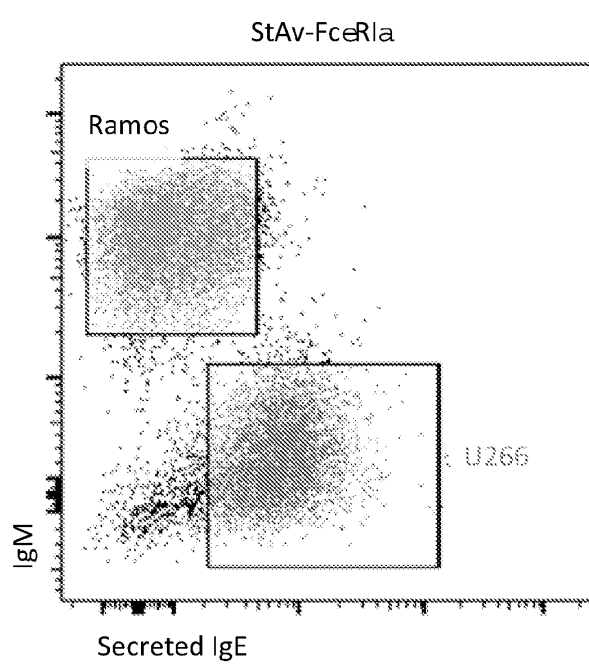


FIG. 4F

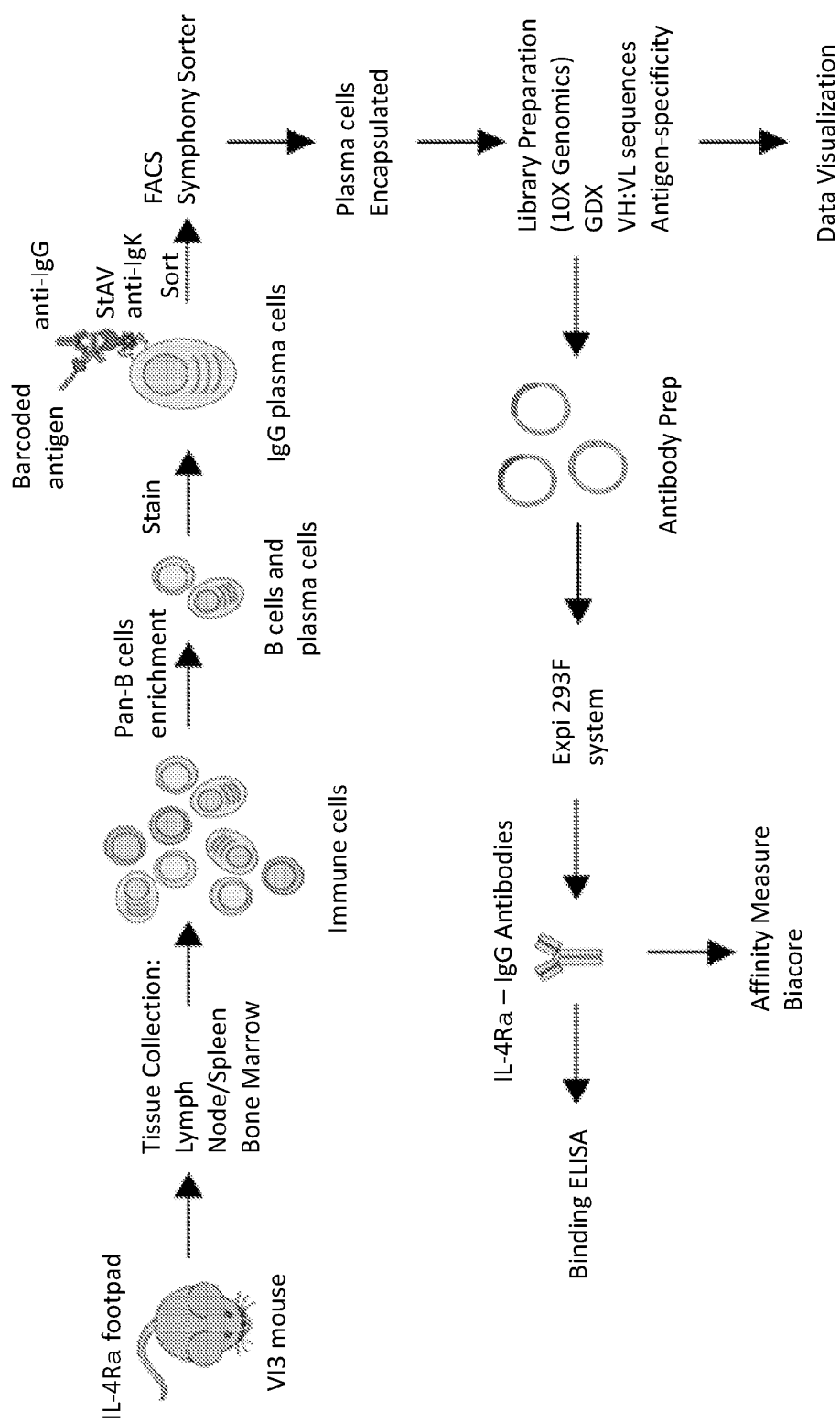


FIG. 5A

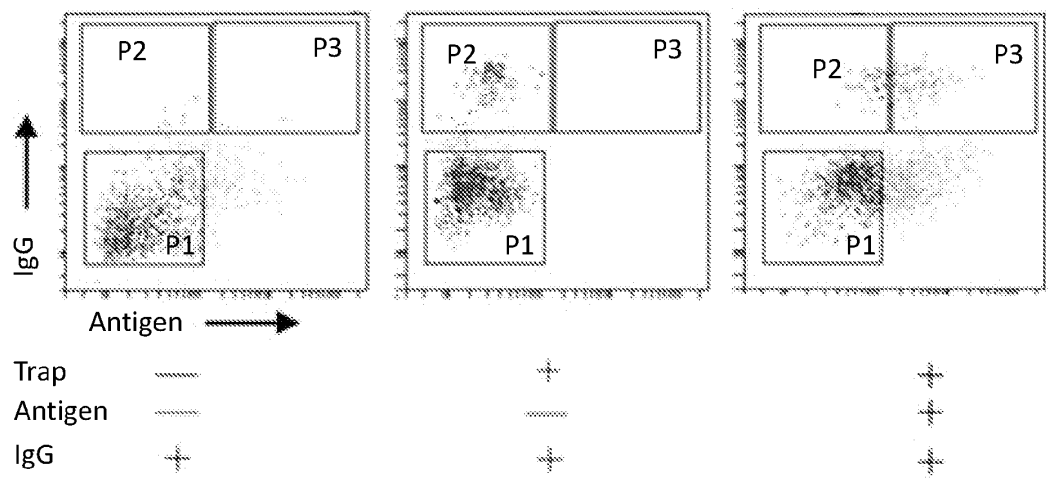


FIG. 5B

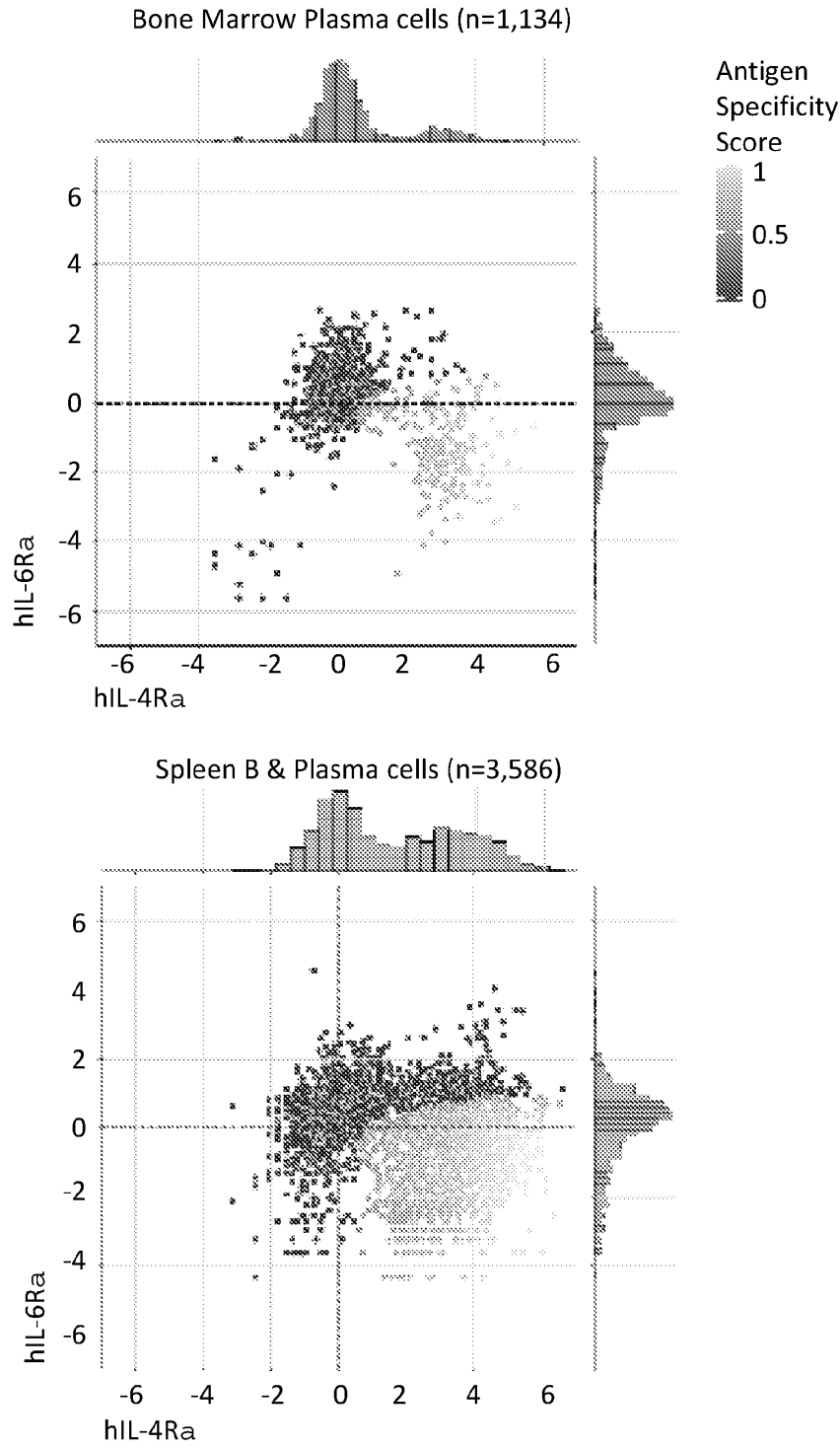


FIG. 5C

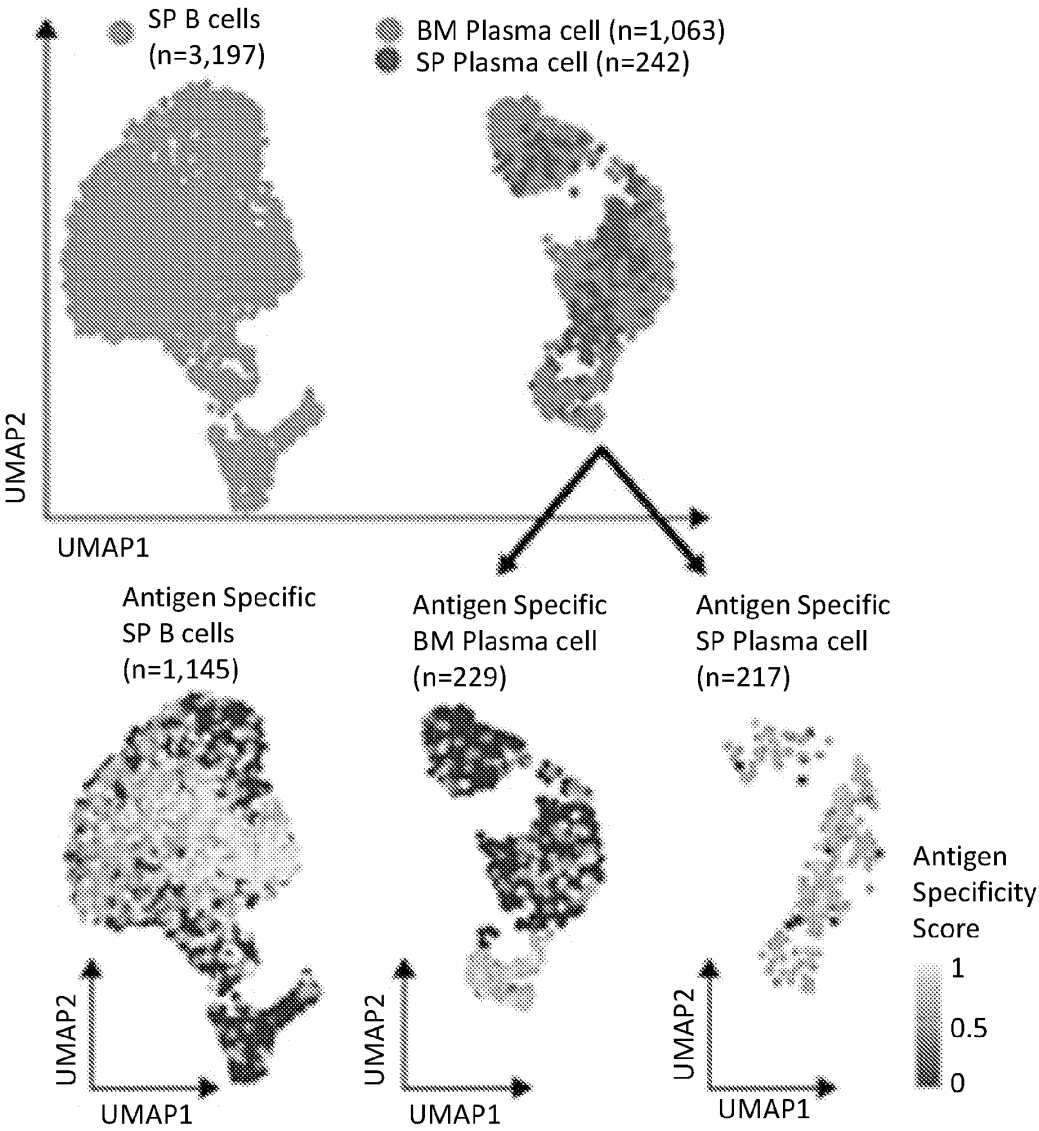


FIG. 5D

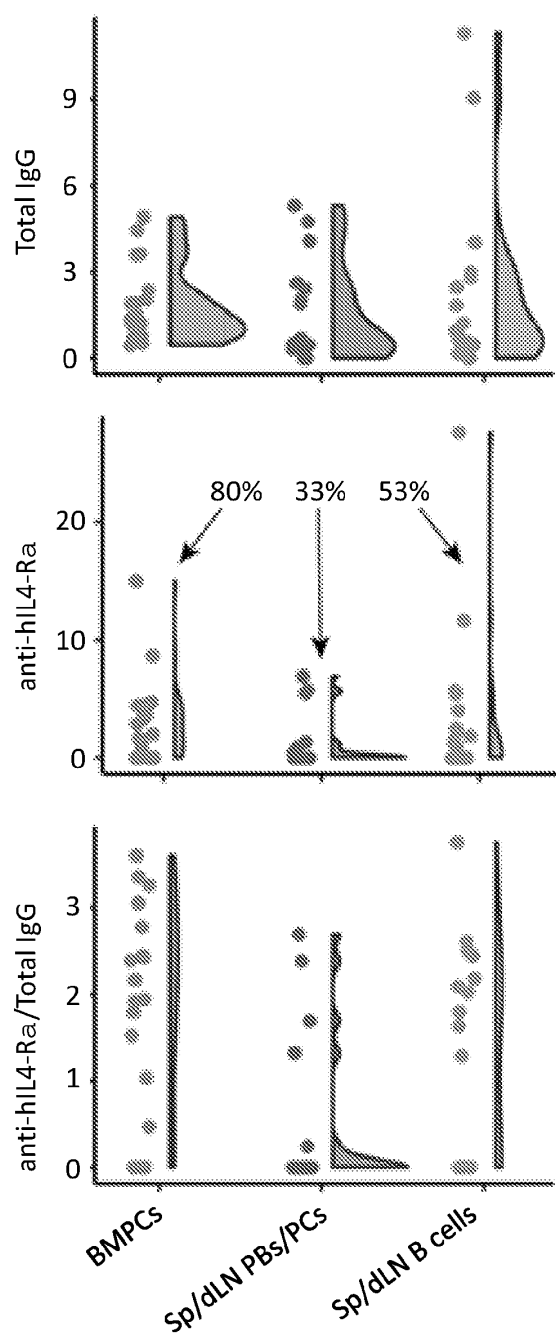


FIG. 5E

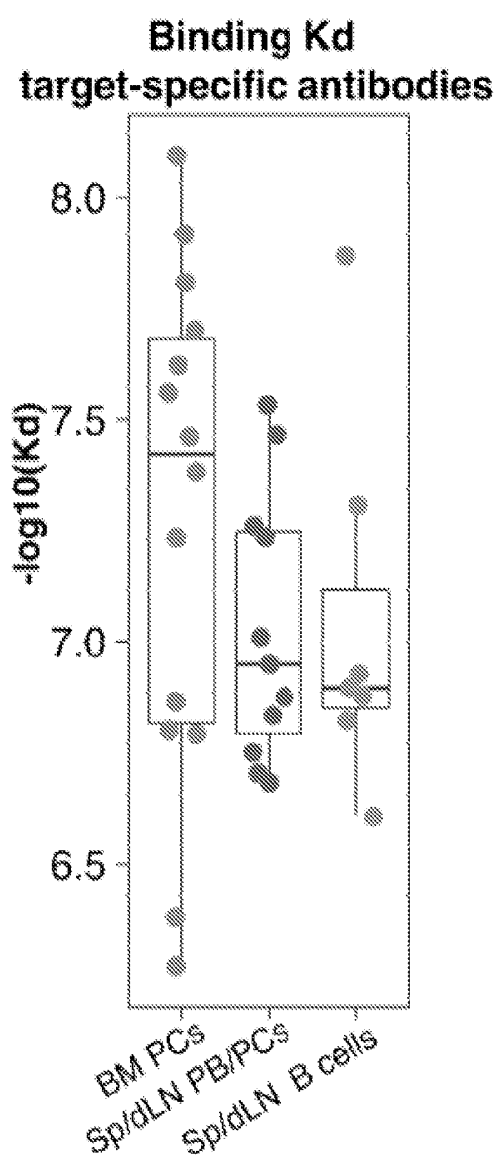


FIG. 5F

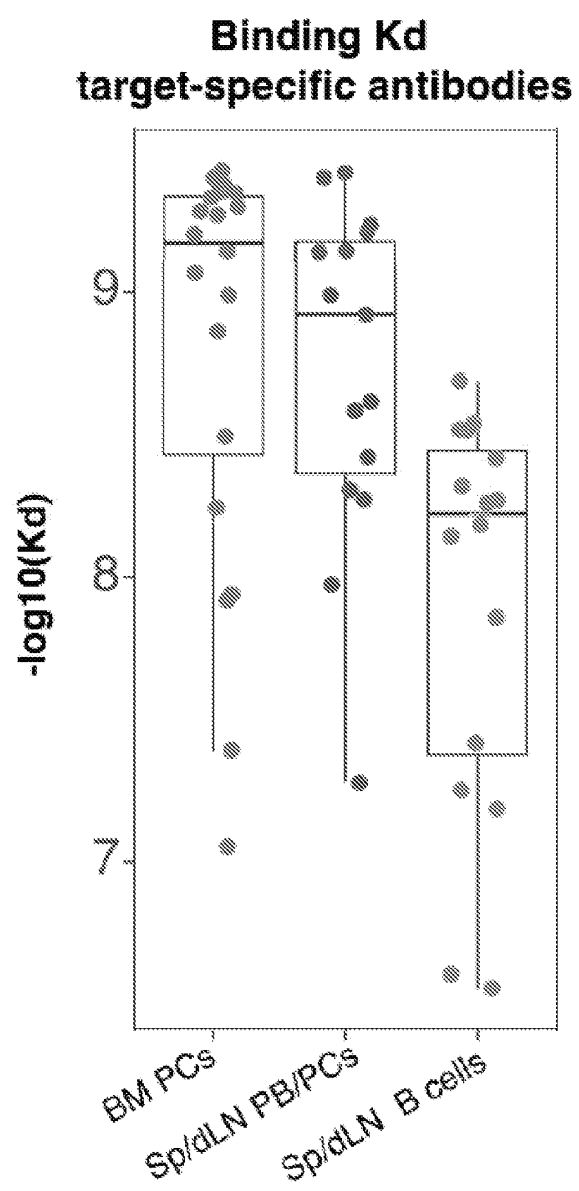


FIG. 5G

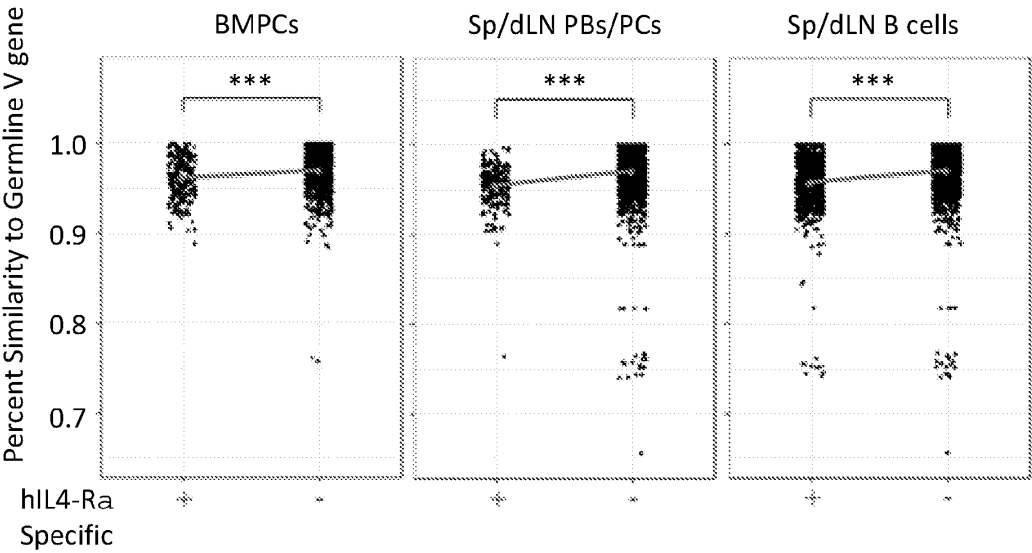


FIG. 6A

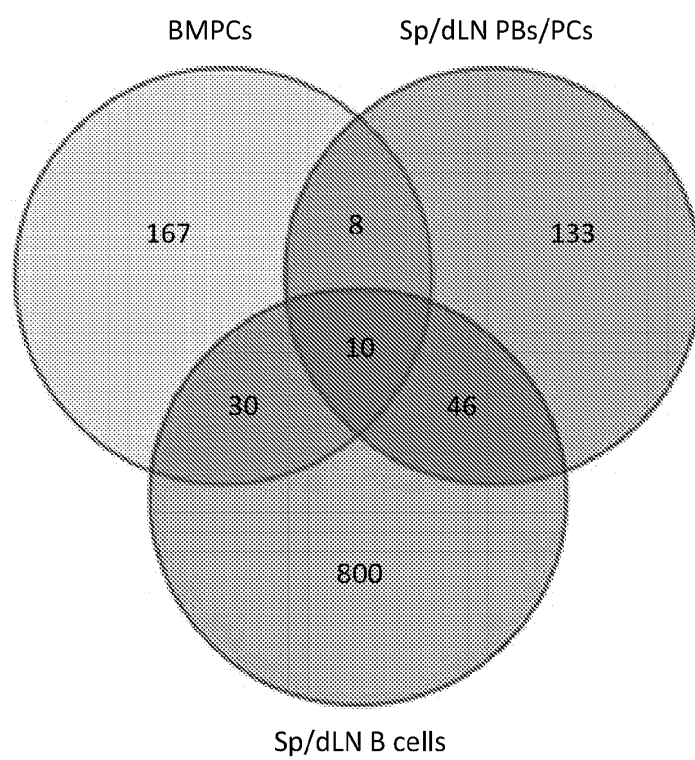


FIG. 6B

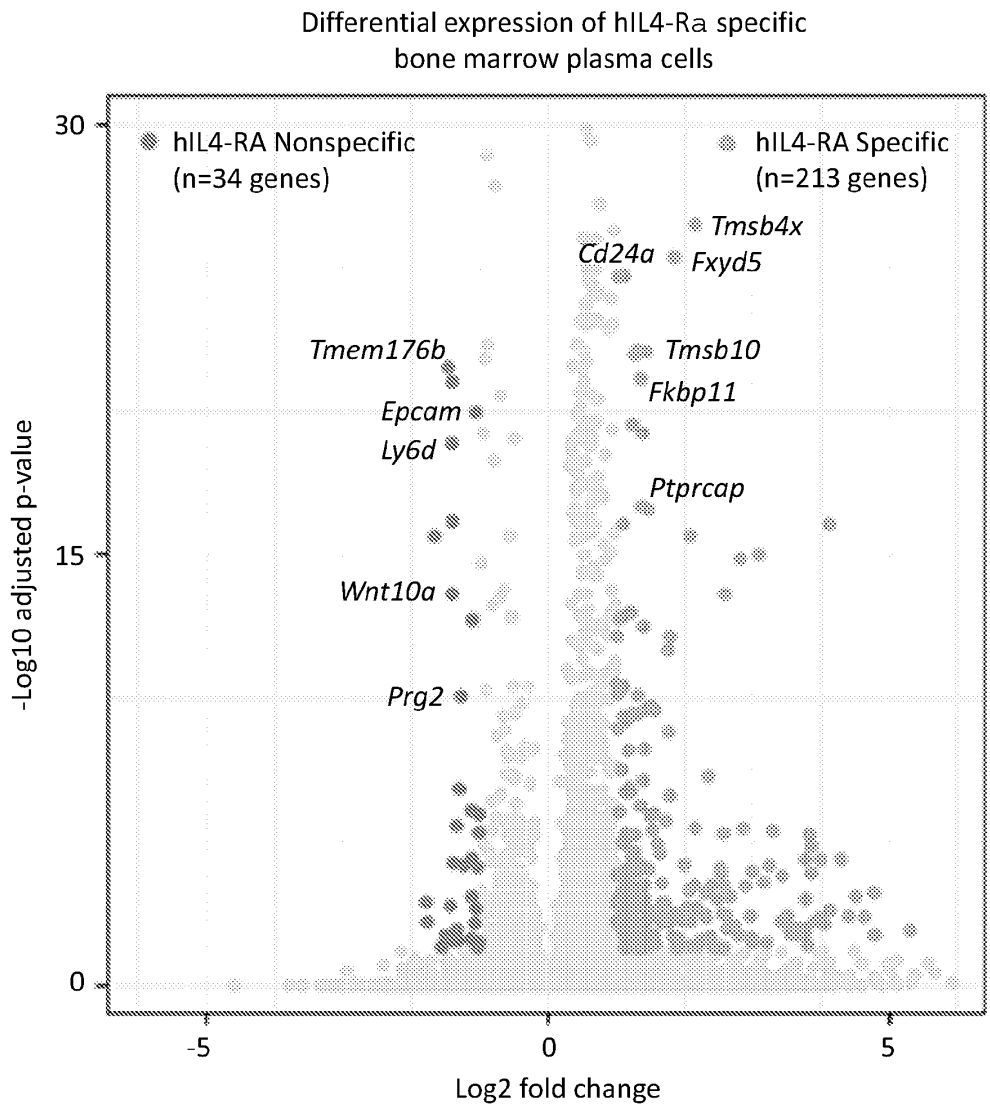


FIG. 6C

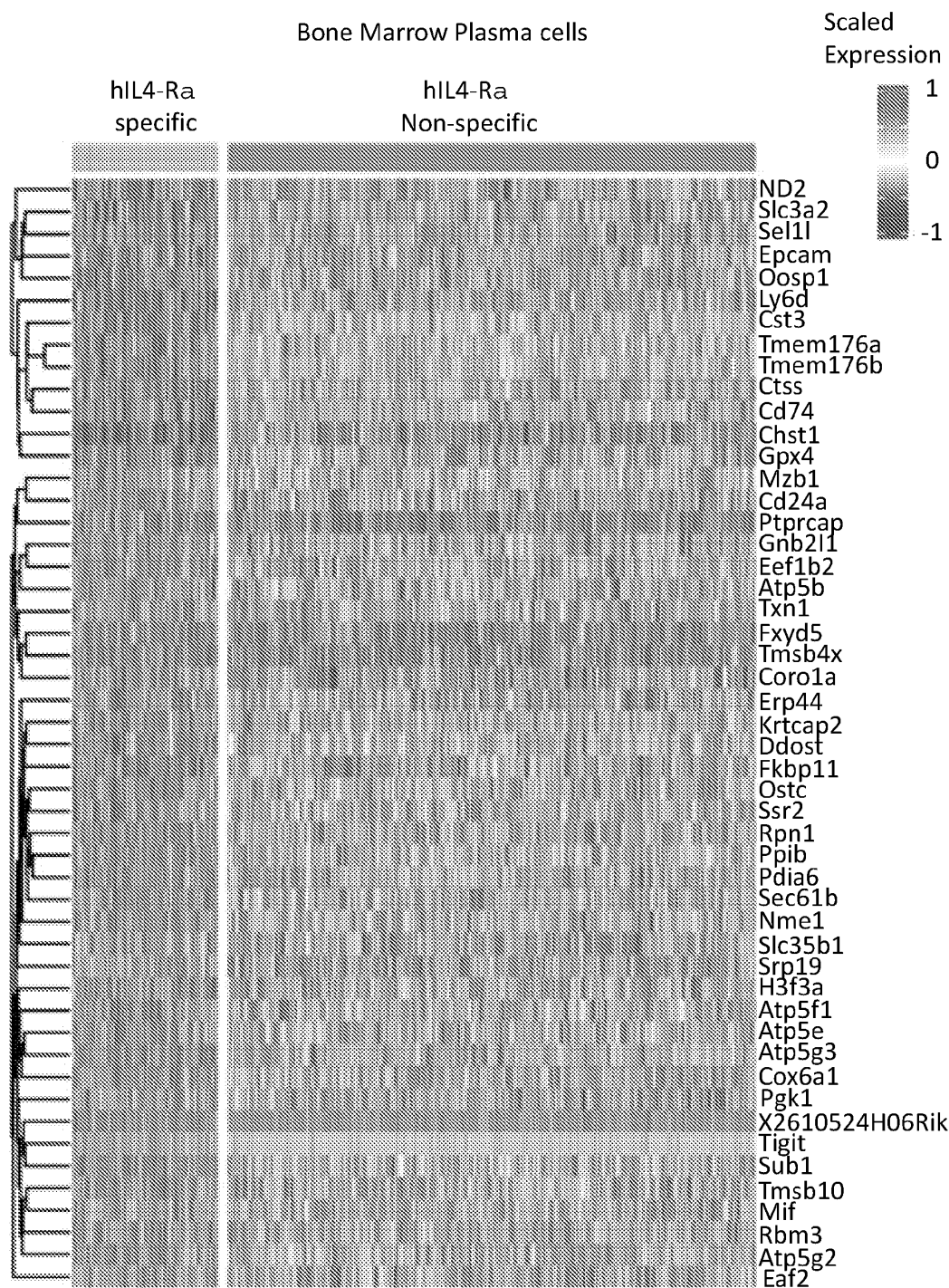


FIG. 6D

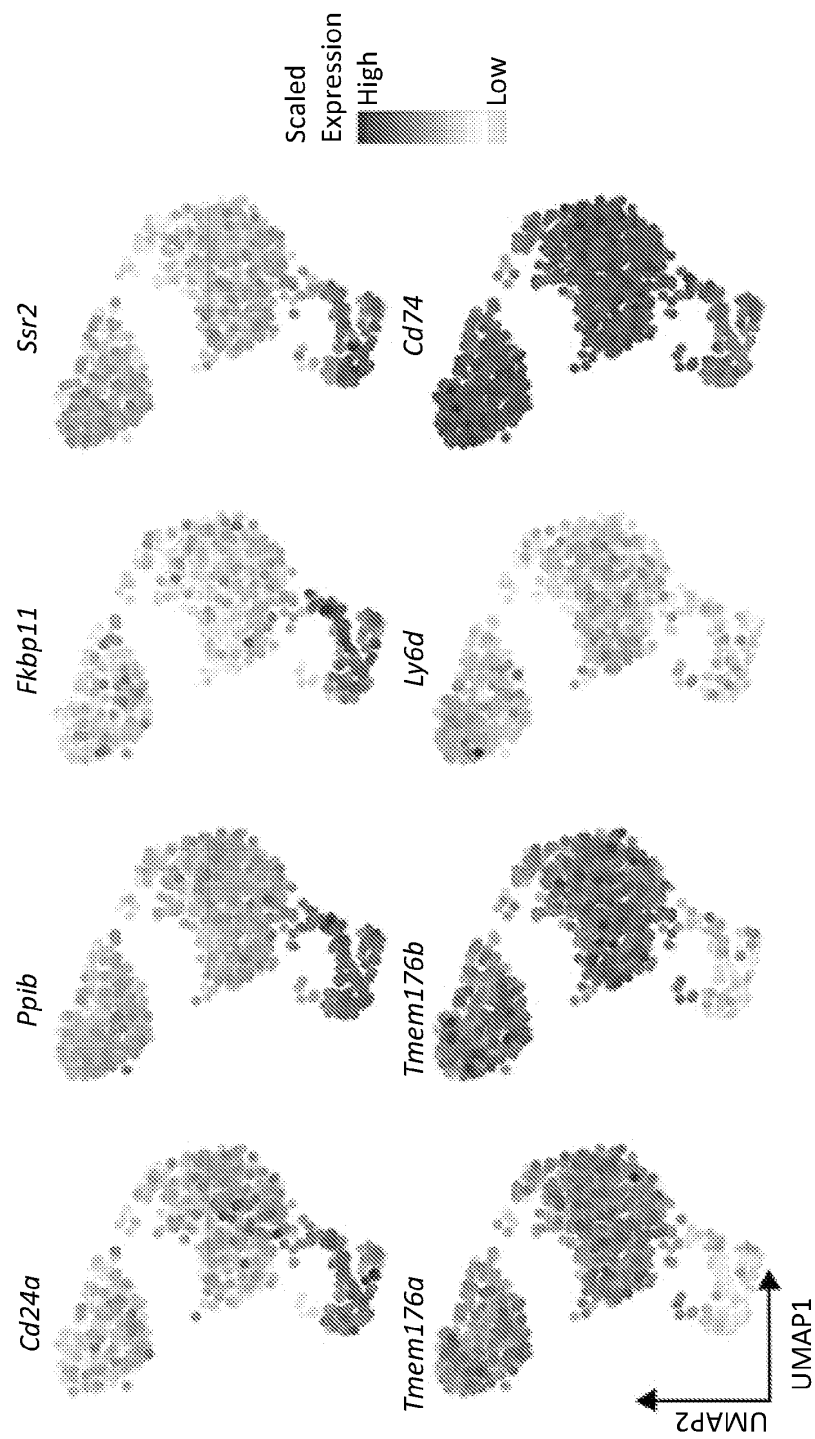


FIG. 6E

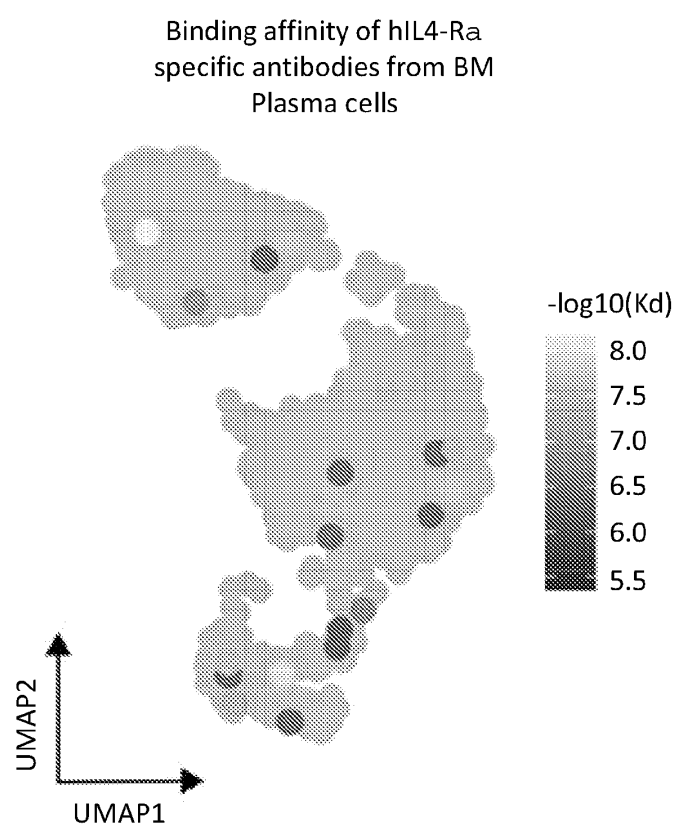


FIG. 6F

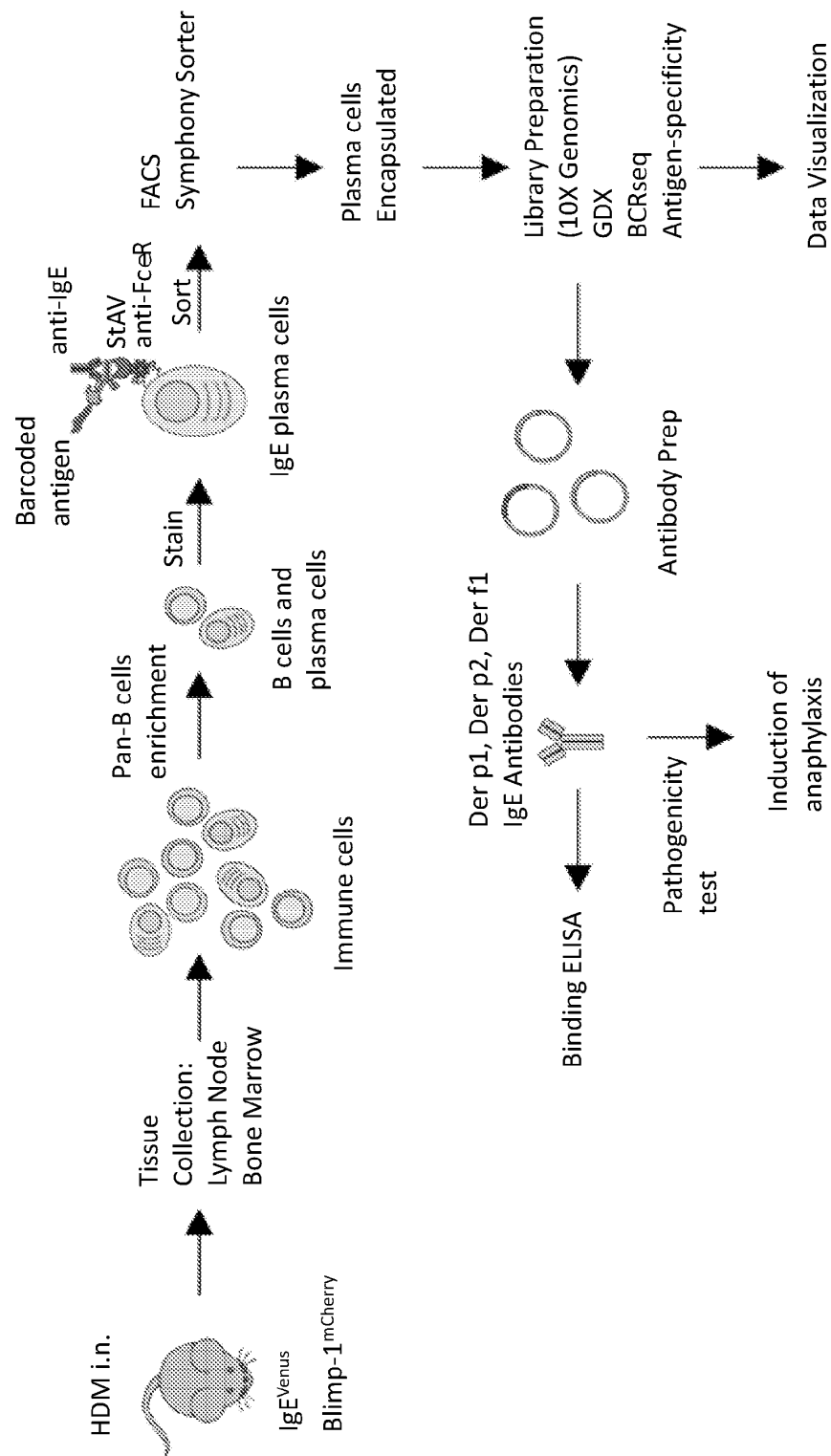


FIG. 7A

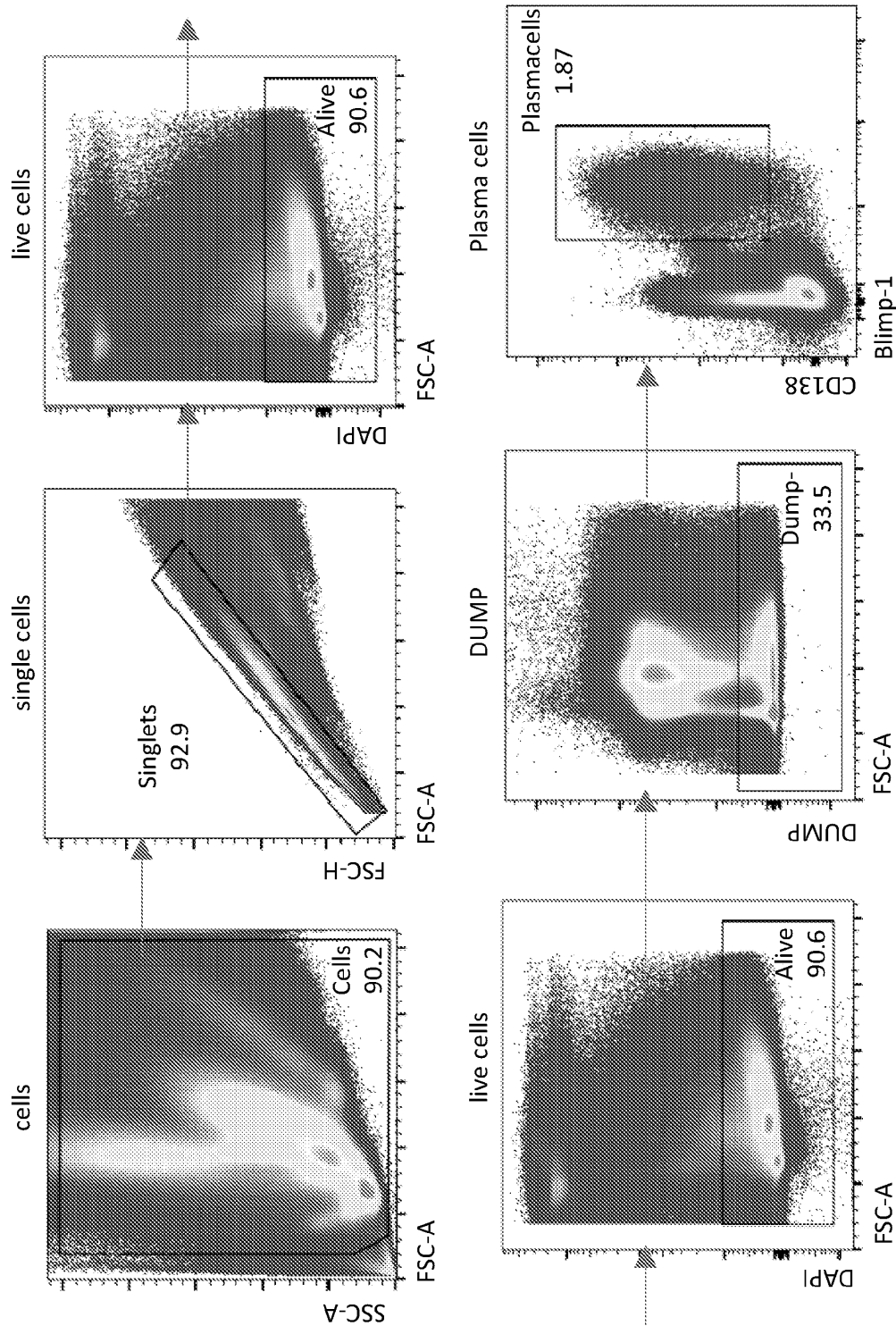


FIG. 7B

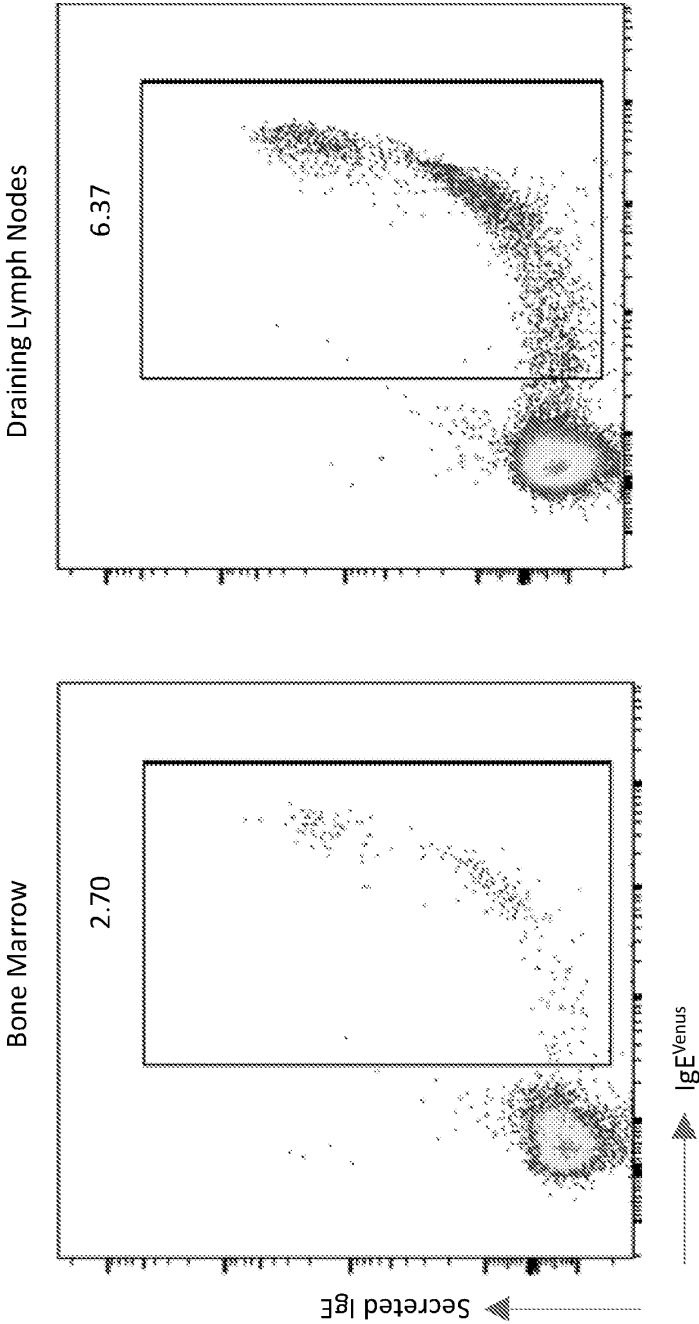


FIG. 7C

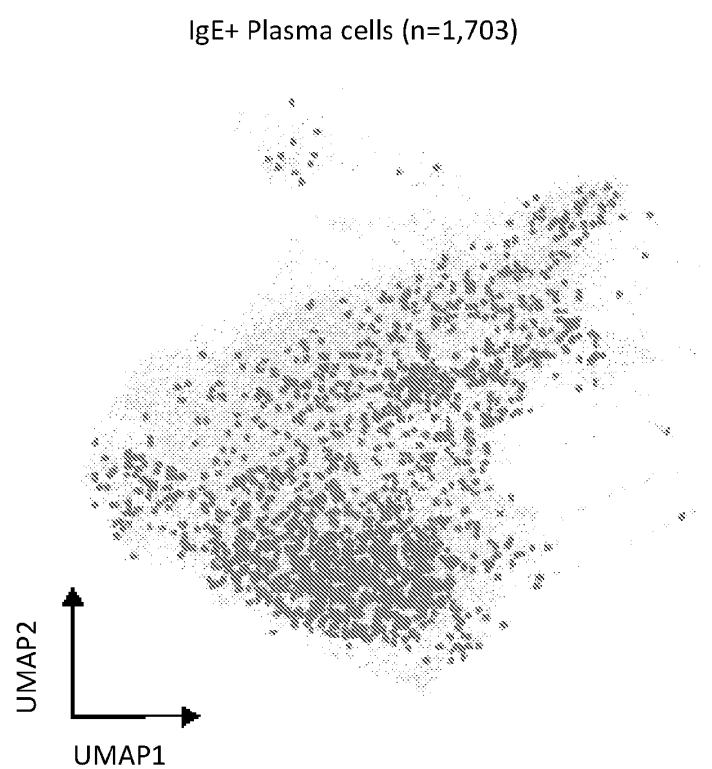


FIG. 7D

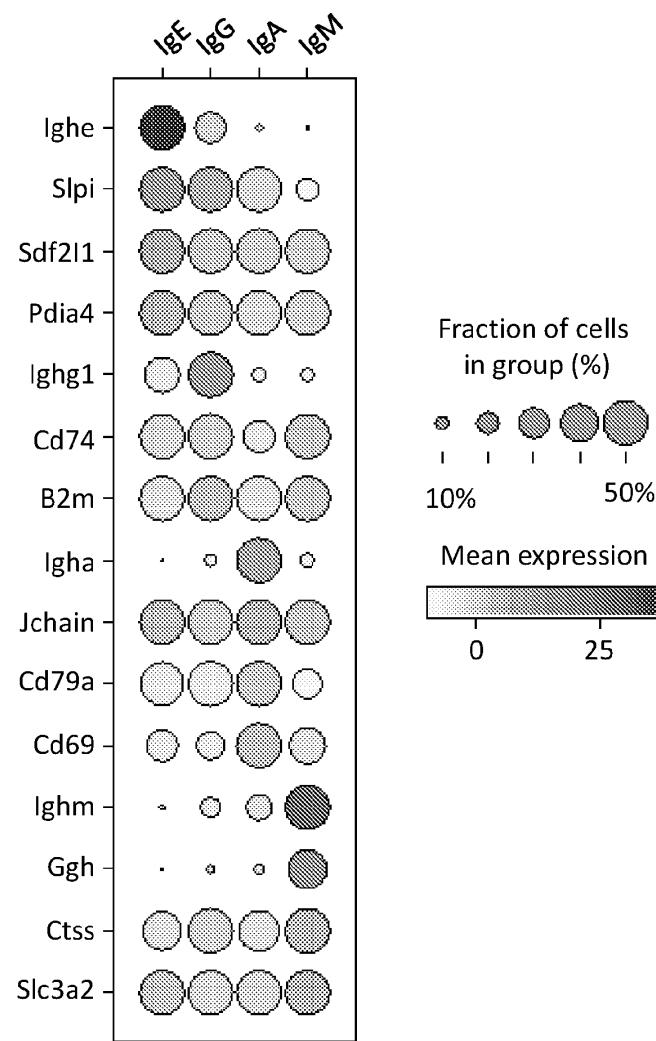


FIG. 7E

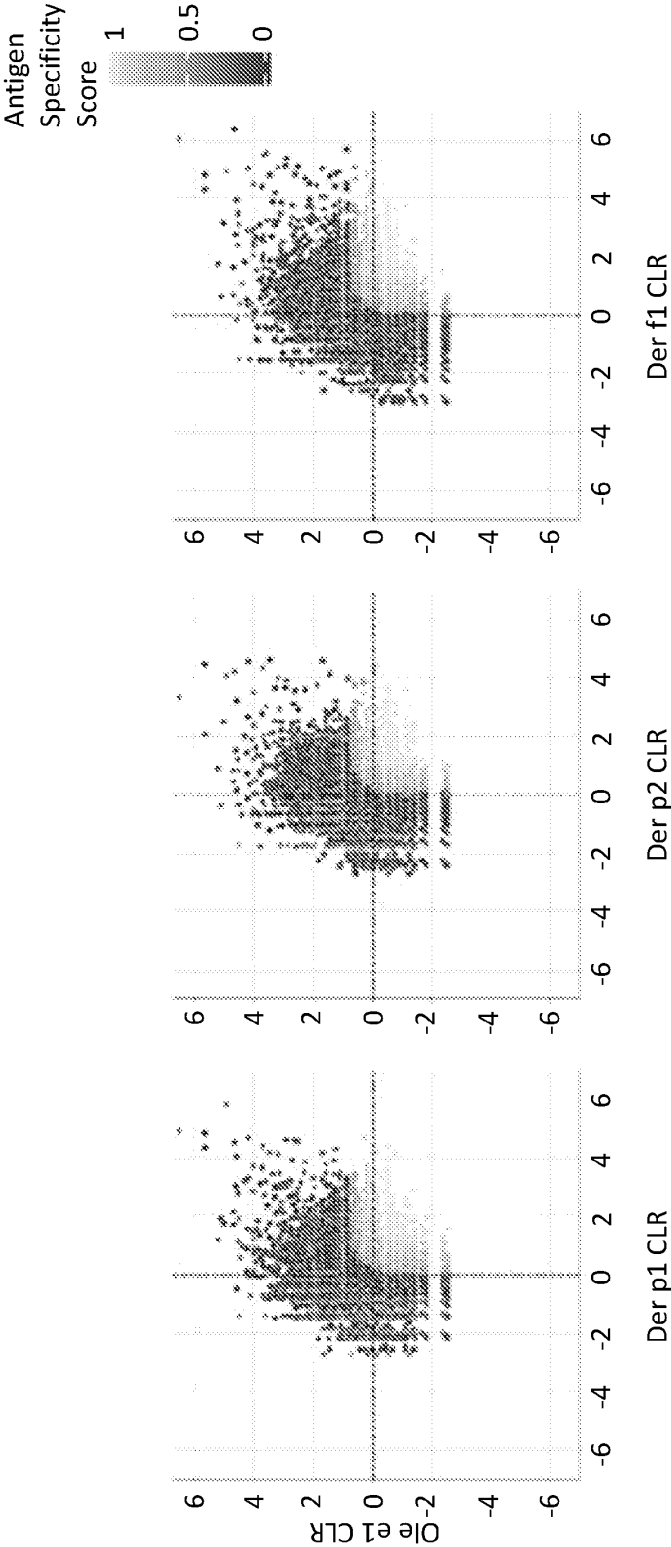


FIG. 7F

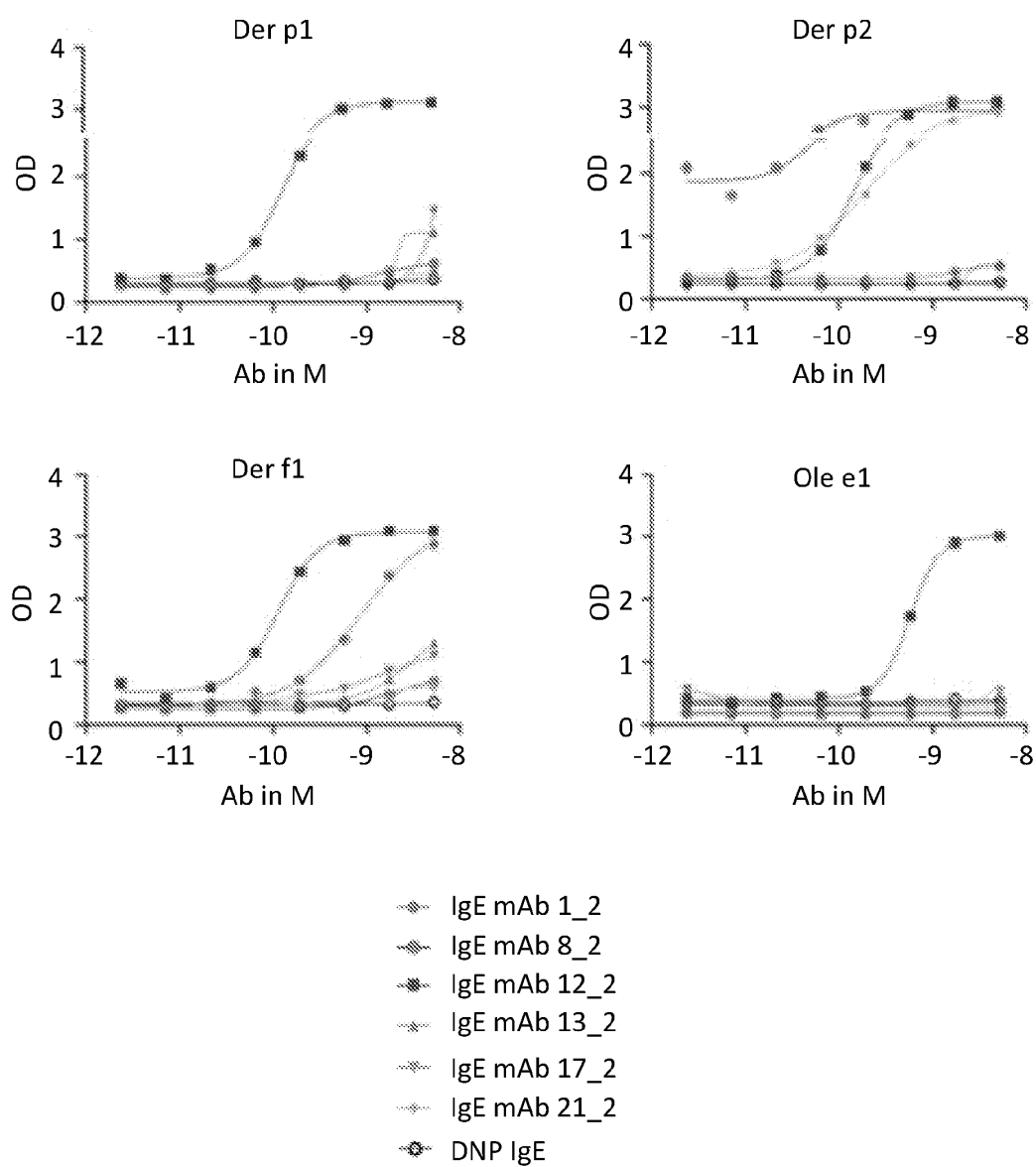


FIG. 7G

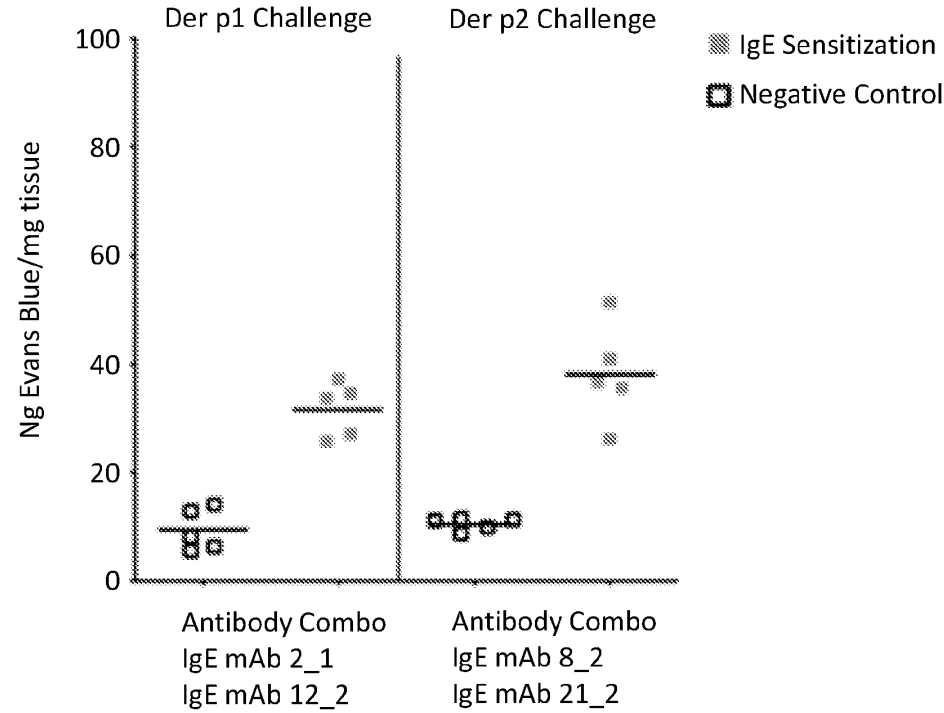


FIG. 7H

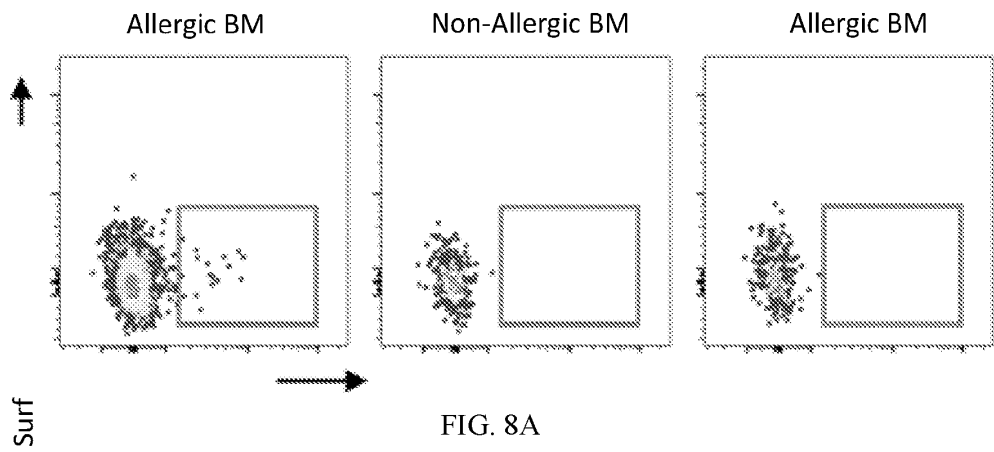


FIG. 8A

REGN ID	ImmunoCAP Specific IgE (KU/L)					
	Cat Dander et al	Dog Dander e5	Common Silver Birch t3	Dermatoph Pteronyssinus d1	Timothy g6	Alternaria Alternaria m6
#97138	39.4	7.53	<0.10	16.3	10.7	<0.10

FIG. 8B

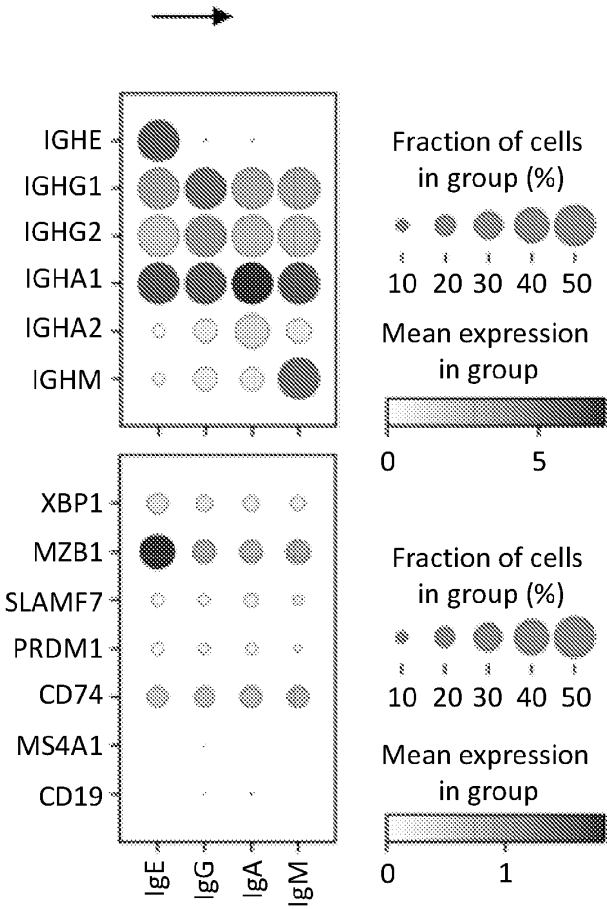


FIG. 8C

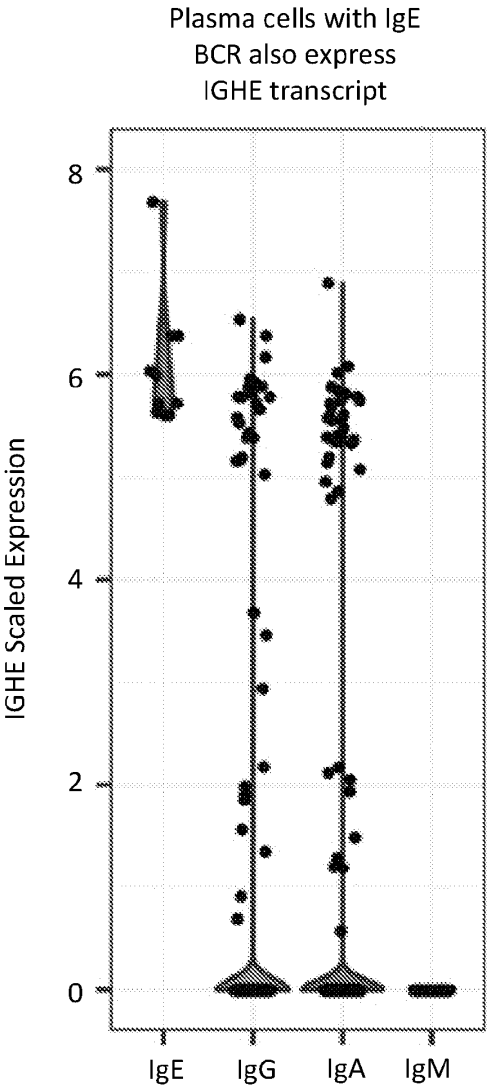


FIG. 8D

Clustered BCR Clonotype	IgE Cells	# of IgEs	# of Non-IgEs
753	IgE_2, IgE_5, IgE_6, IgE_8	4	0
696	IgE_7, IgE_9, IgE_10	3	0
1330	IgE_3	1	0
576	IgE_4	1	0
21	IgE_1	1	14

FIG. 8E

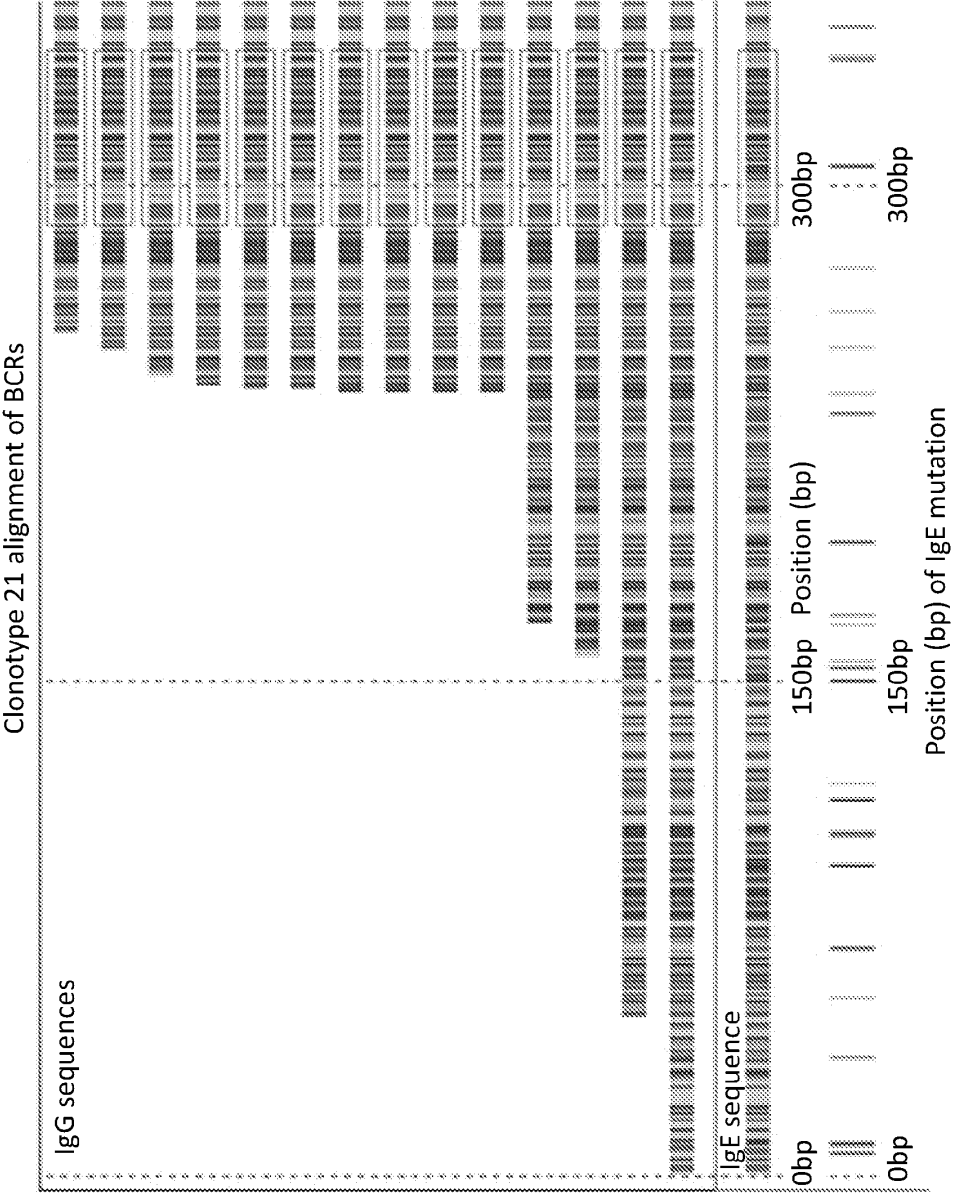


FIG. 8F

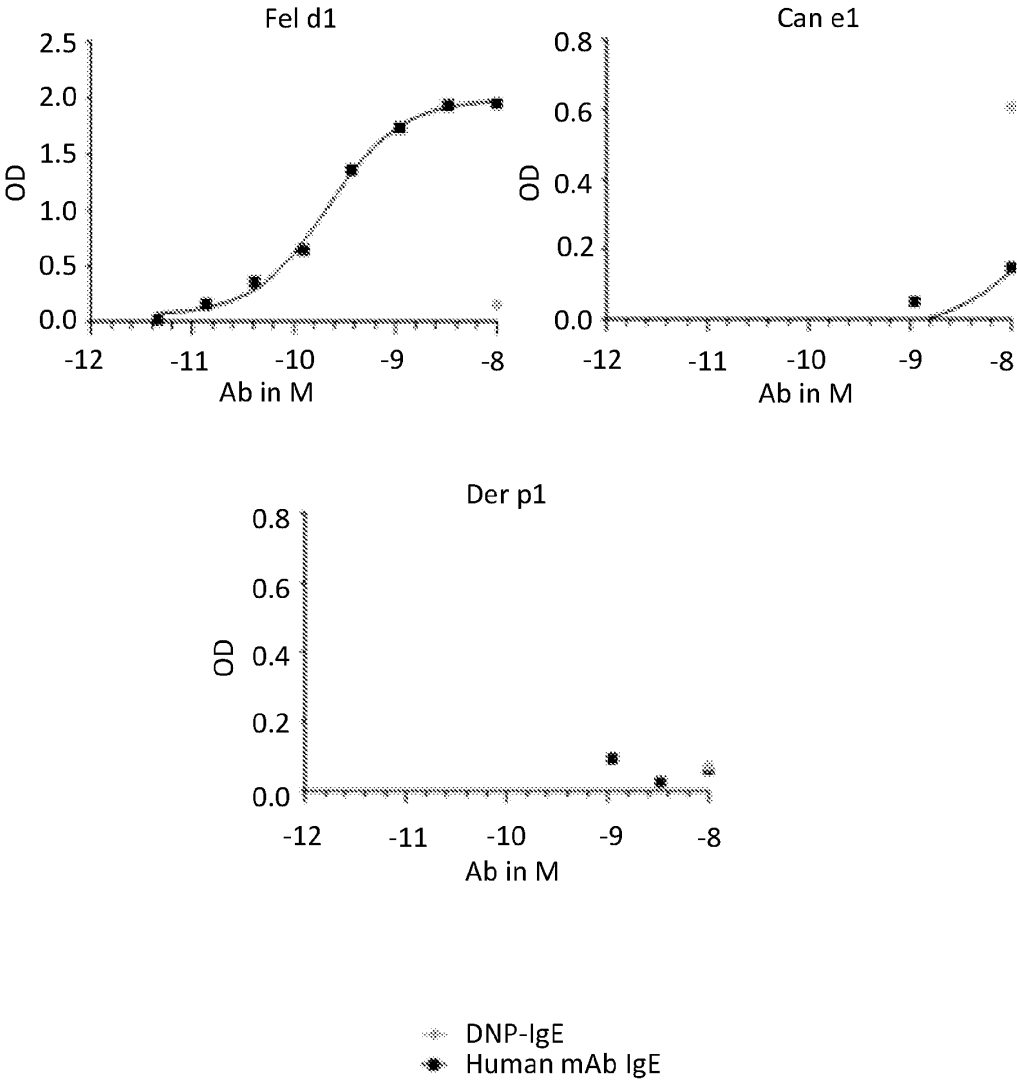


FIG. 8G

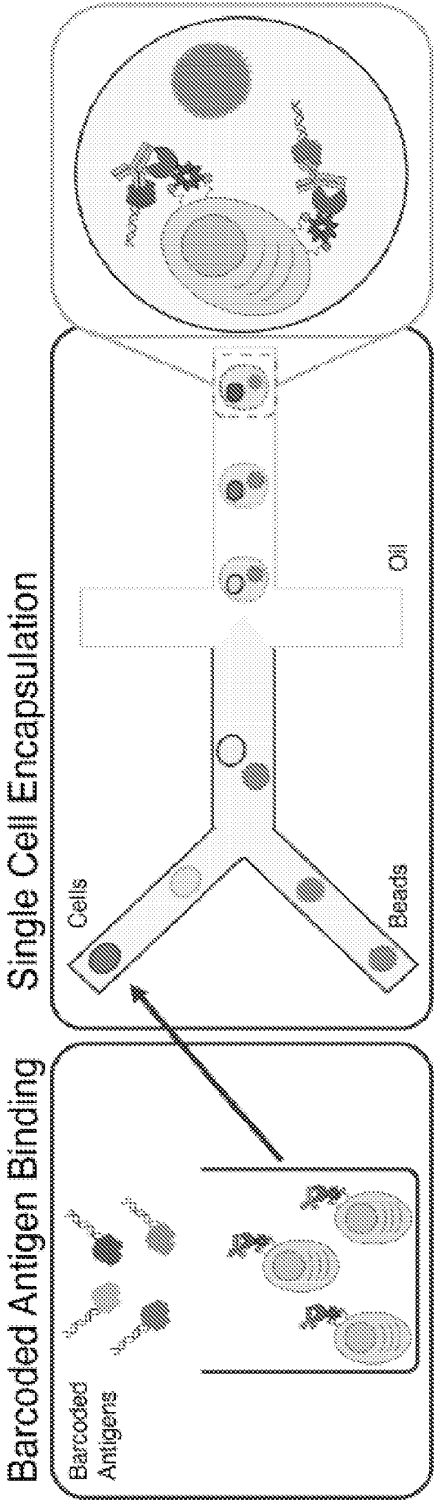


FIG. 9

Cell Lysis

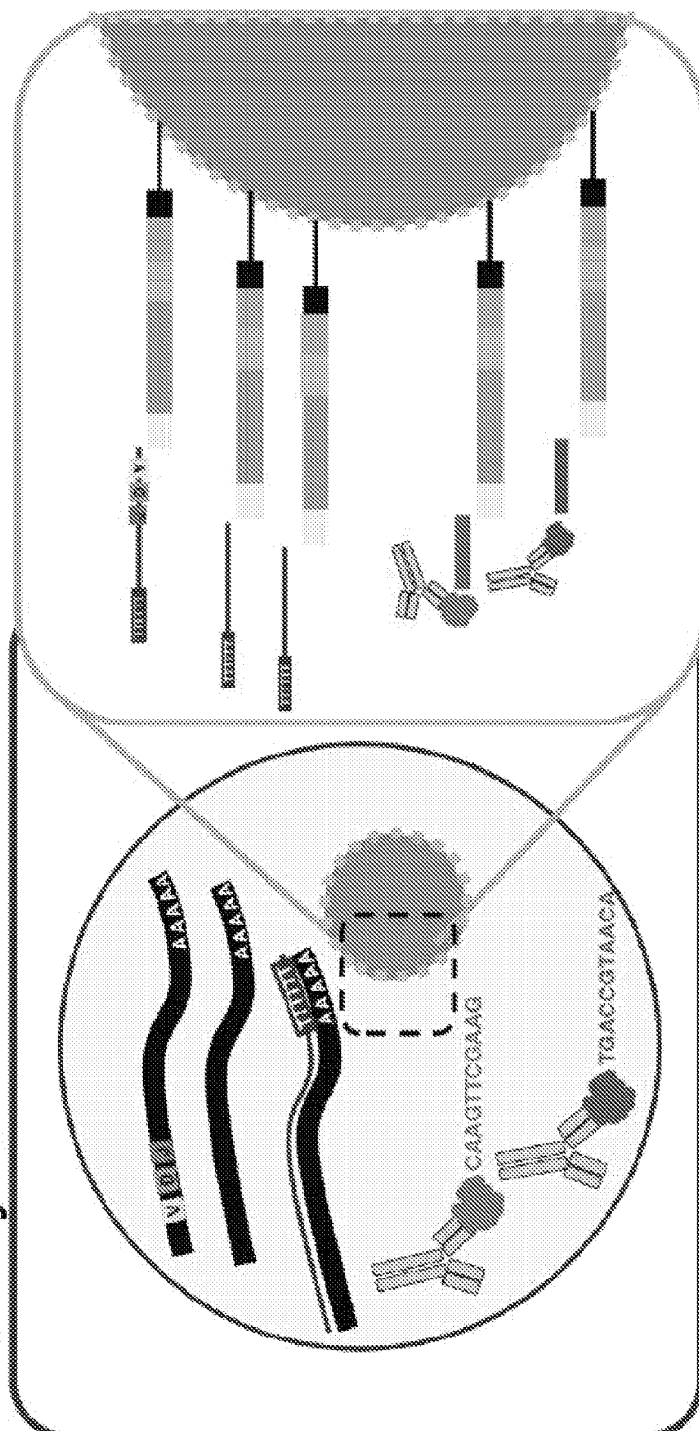


FIG. 9 (cont.)

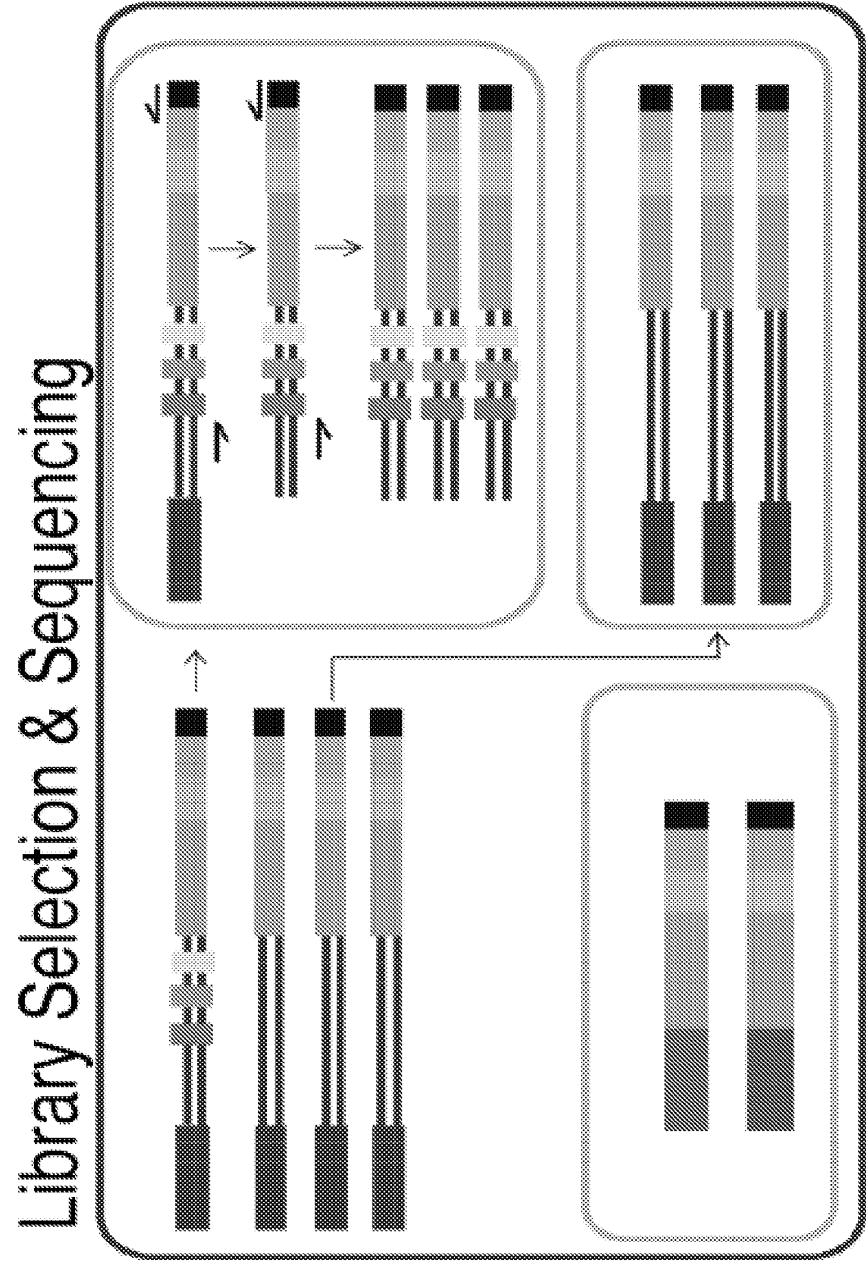


FIG. 9 (cont.)

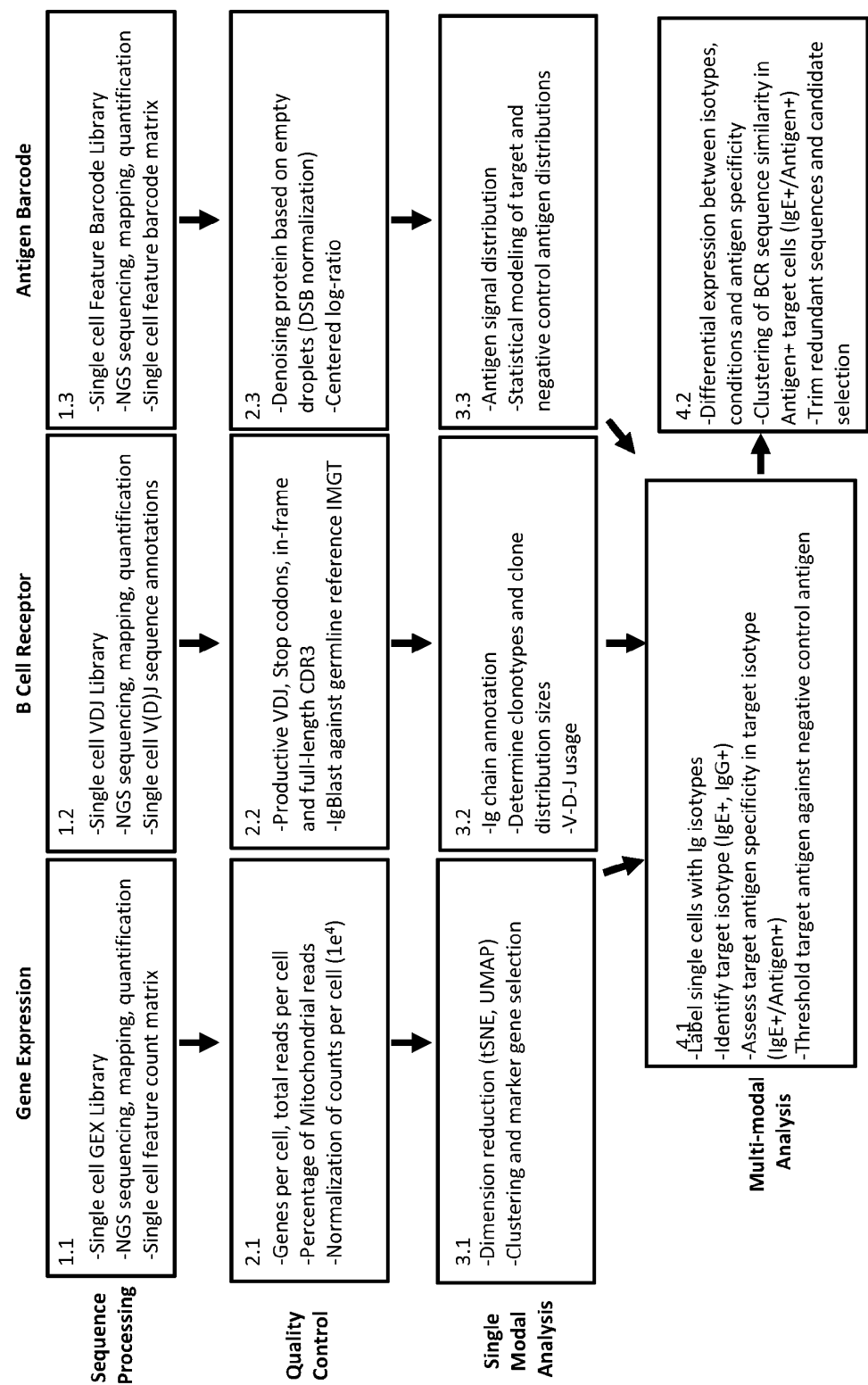


FIG. 10

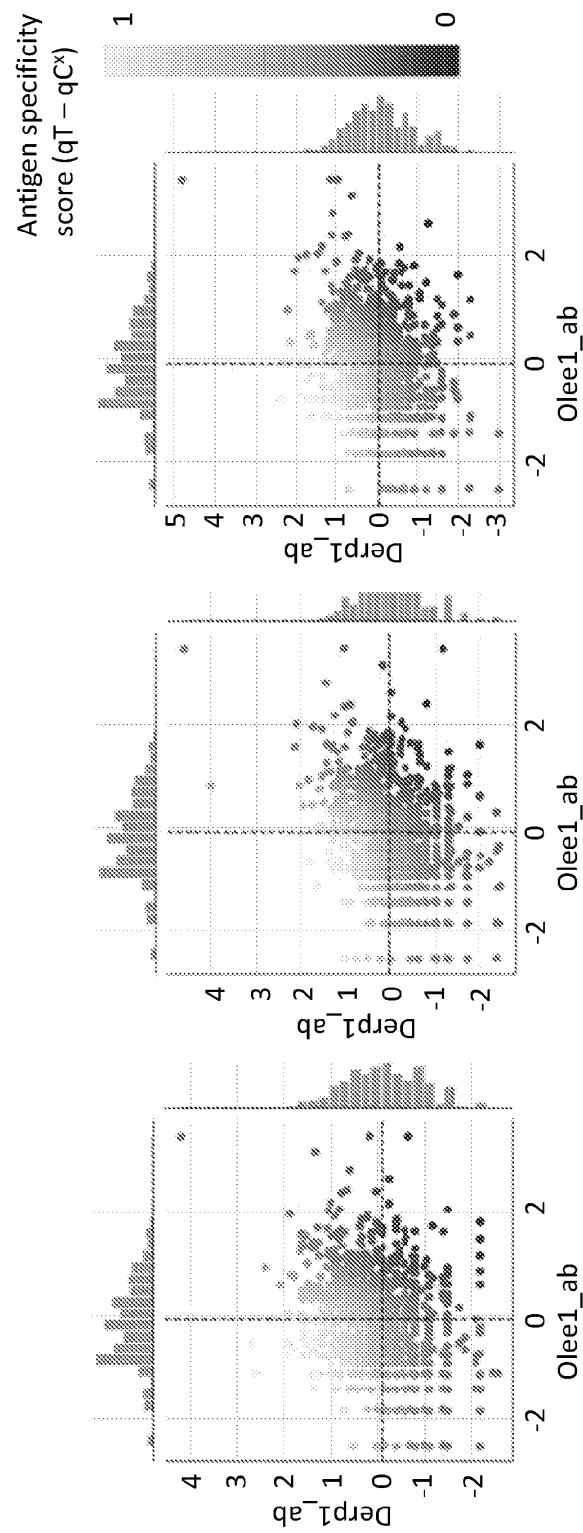


FIG. 11

Candidate ID	Sample Detail	Raw Antigen Barcode Count			
		Derp1	Derp2	Derf1	Olee1
1	IgE PCs BM	158	60	37	0
2	Lymph node IgE+PCs	55	17	6	0
3	Bone marrow IgE+PCs	268	31	67	0
4	IgE PCs LN	25	2	17	0
5	IgE PCs BM	34	13	14	0
6	IgE PCs BM	33	21	51	0
7	IgE PCs BM	29	22	32	0
8	Lymph node IgE+PCs	12	22	56	0
9	Lymph node IgE+PCs	16	46	15	1
10	IgE PCs BM	20	8	55	1
11	IgE PCs BM	17	11	13	0
12	IgE PCs BM	15	20	15	0
13	IgE PCs BM	15	11	57	1
14	Lymph node IgE+PCs	20	64	36	2
15	IgE PCs BM	11	16	12	0
16	IgE PCs LN	10	6	184	3
17	Lymph node IgE+PCs	6	44	1	1
18	IgE PCs LN	4	6	20	0
19	Lymph node IgE+PCs	2	35	6	0
20	IgE PCs BM	3	21	0	0
21	IgE PCs LN	2	215	1	4

FIG. 12

Candidate ID	Sample Detail	Normalized Barcode Count			
		Derp1	Derp2	Derf1	Olee1
1	IgE PCs BM	2.616	1.645	1.322	-1.116
2	Lymph node IgE+PCs	2.173	0.665	-0.007	-0.664
3	Bone marrow IgE+PCs	3.868	1.432	2.586	-0.540
4	IgE PCs LN	1.161	-0.915	0.899	-0.772
5	IgE PCs BM	1.016	0.159	0.388	-1.127
6	IgE PCs BM	0.987	0.611	1.631	-1.127
7	IgE PCs BM	0.862	0.655	1.177	-1.127
8	Lymph node IgE+PCs	0.713	0.910	2.091	-0.664
9	Lymph node IgE+PCs	0.981	1.624	0.820	0.029
10	IgE PCs BM	0.505	-0.283	1.706	-0.434
11	IgE PCs BM	0.437	0.019	0.323	-1.116
12	IgE PCs BM	0.320	0.579	0.457	-1.116
13	IgE PCs BM	0.233	0.005	1.741	-0.434
14	Lymph node IgE+PCs	1.193	1.949	1.658	0.434
15	IgE PCs BM	0.032	0.368	0.249	-1.116
16	IgE PCs LN	0.902	0.580	3.732	0.603
17	Lymph node IgE+PCs	0.094	1.581	-1.259	0.029
18	IgE PCs LN	-0.488	-0.068	1.053	-0.772
19	Lymph node IgE+PCs	-0.753	1.358	-0.007	-0.664
20	IgE PCs BM	-1.067	0.626	-2.316	-1.116
21	IgE PCs LN	-0.398	4.010	-0.795	0.826

FIG. 12 (cont.)

Candidate ID	Sample Detail	Antigen Score		
		Derp1	Derp2	Derf1
1	IgE PCs BM	1.007	1.003	0.982
2	Lymph node IgE+PCs	0.996	0.839	0.532
3	Bone marrow IgE+PCs	0.993	0.978	0.991
4	IgE PCs LN	0.949	0.124	0.919
5	IgE PCs BM	0.934	0.585	0.733
6	IgE PCs BM	0.920	0.828	0.994
7	IgE PCs BM	0.890	0.837	0.970
8	Lymph node IgE+PCs	0.847	0.904	0.997
9	Lymph node IgE+PCs	0.775	0.858	0.765
10	IgE PCs BM	0.751	0.302	0.971
11	IgE PCs BM	0.738	0.488	0.705
12	IgE PCs BM	0.711	0.799	0.759
13	IgE PCs BM	0.637	0.453	0.973
14	Lymph node IgE+PCs	0.612	0.662	0.651
15	IgE PCs BM	0.561	0.706	0.659
16	IgE PCs LN	0.435	0.336	0.544
17	Lymph node IgE+PCs	0.425	0.860	-0.031
18	IgE PCs LN	0.313	0.441	0.950
19	Lymph node IgE+PCs	0.234	0.981	0.530
20	IgE PCs BM	0.135	0.833	0.013
21	IgE PCs LN	-0.245	0.412	-0.386

FIG. 12 (cont.)

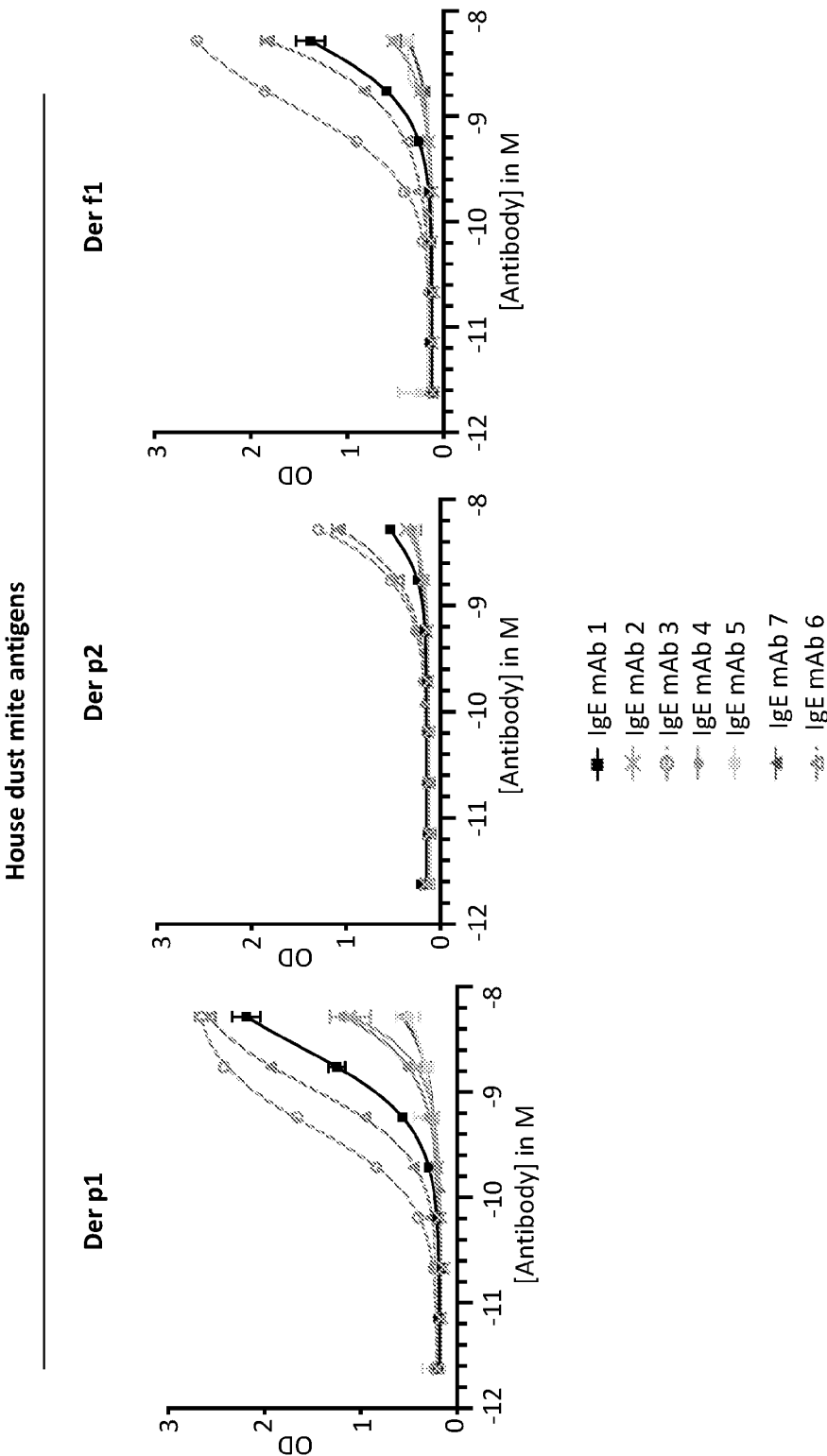


FIG. 13A

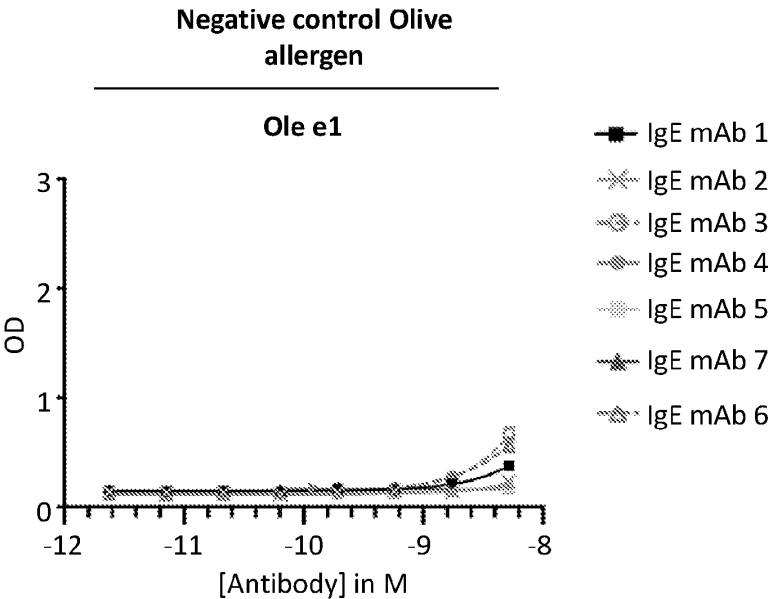


FIG. 13B

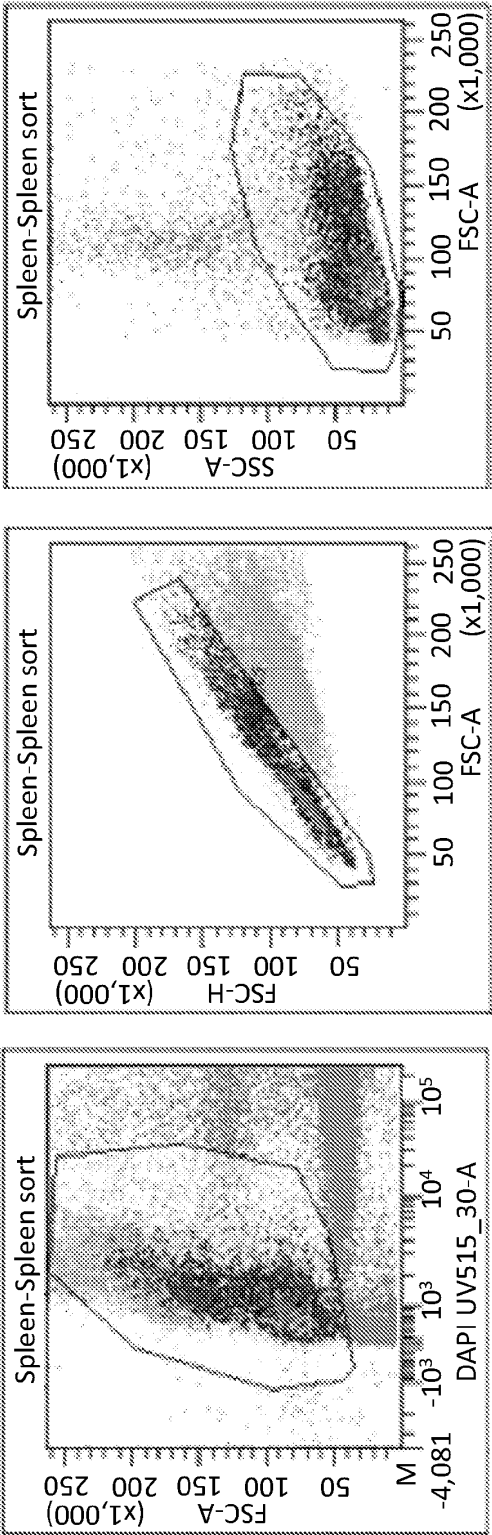


FIG. 14A

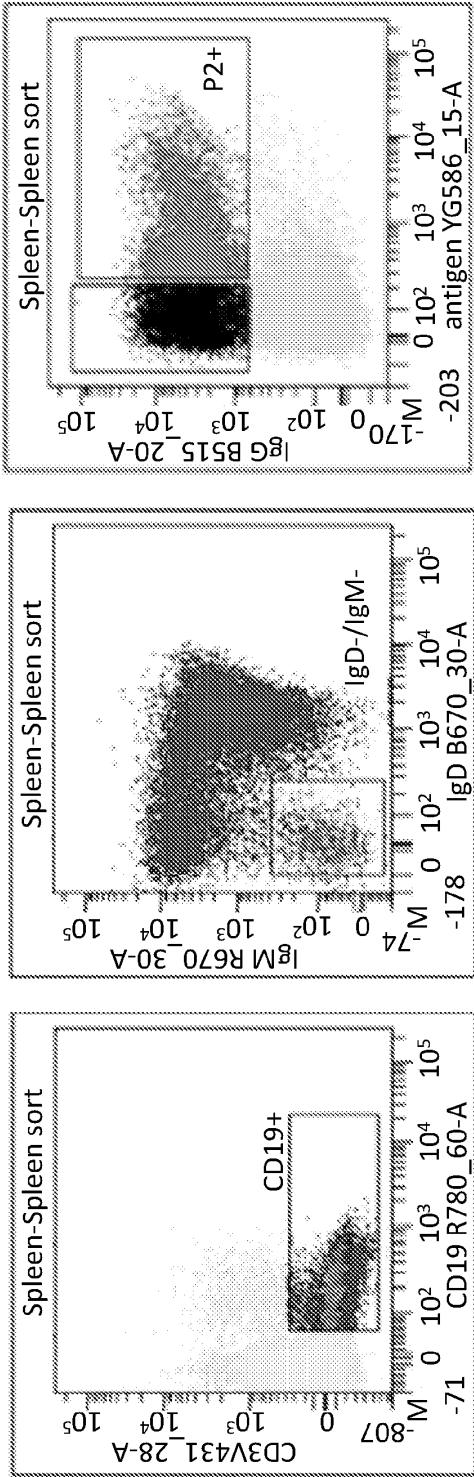


FIG. 14A (cont.)

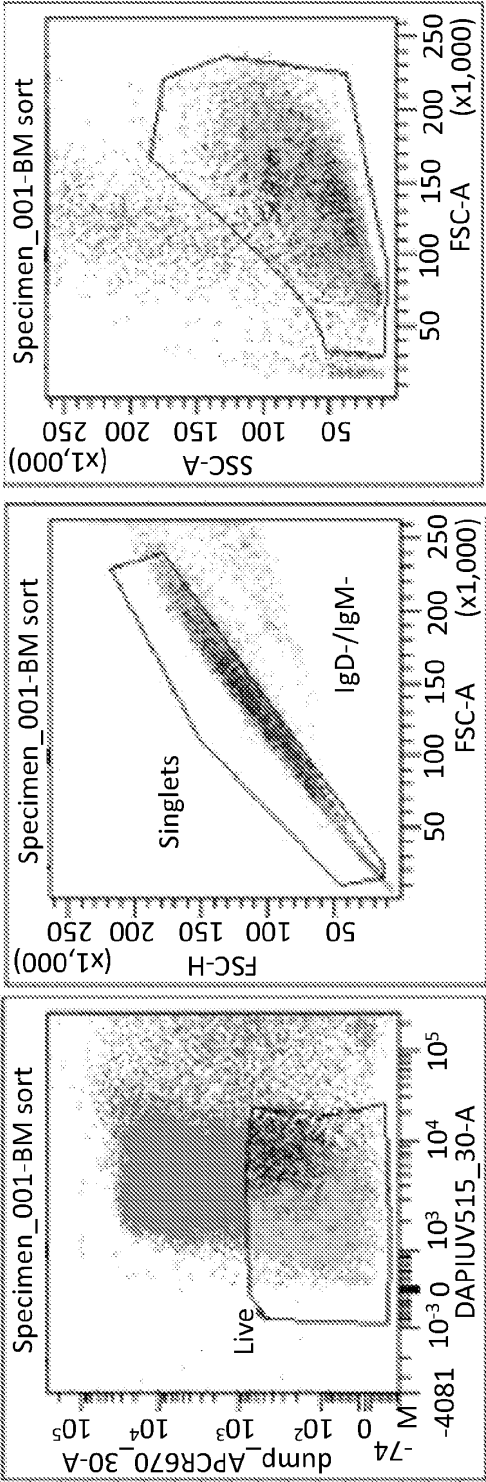


FIG. 14B

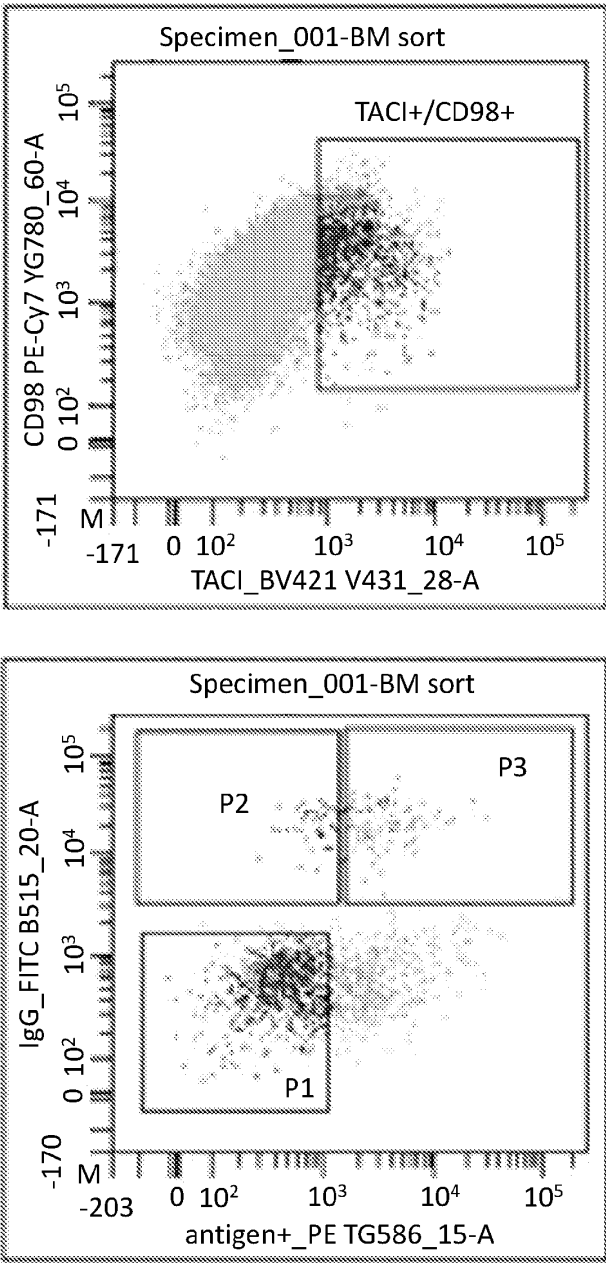


FIG. 14B (cont.)

Bone Marrow
gating on plasma cells

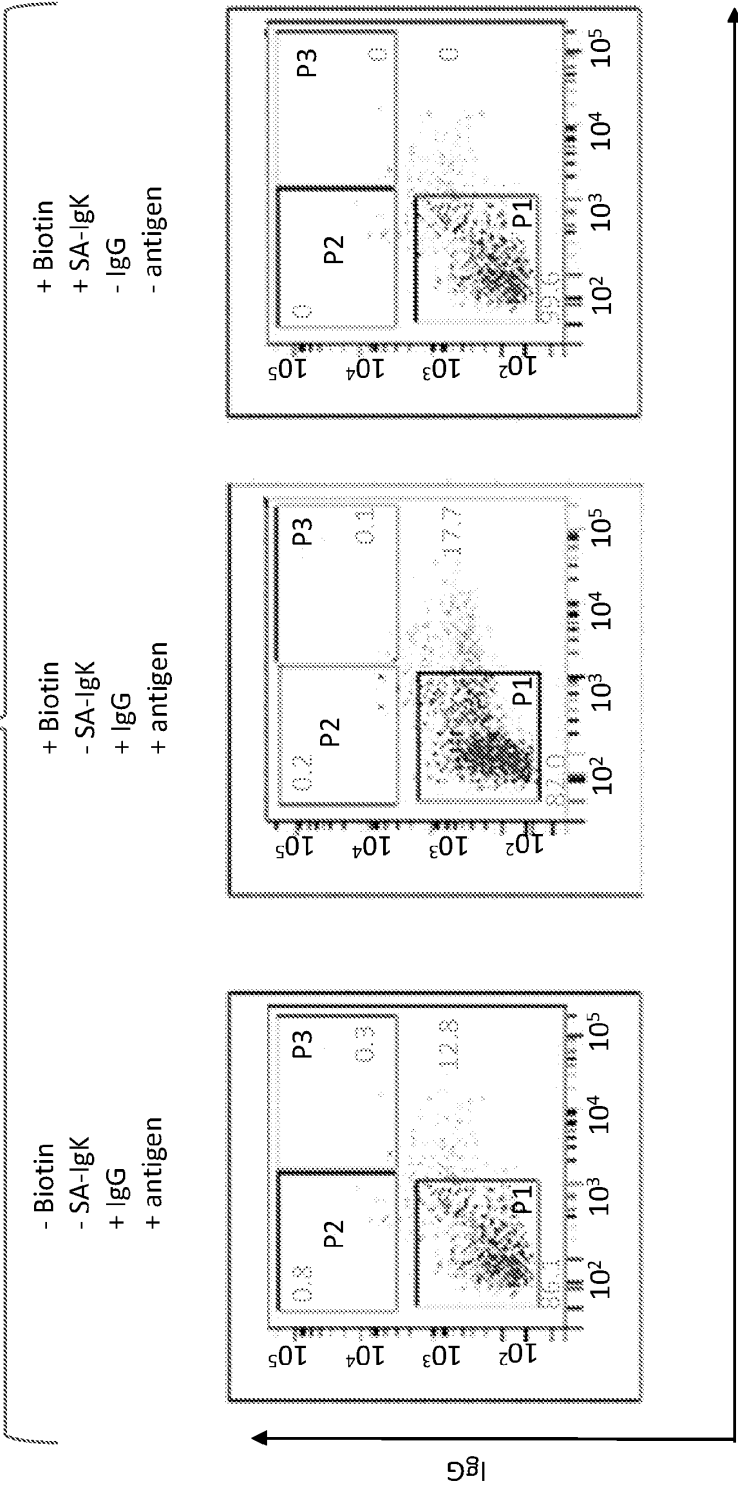


FIG. 14C

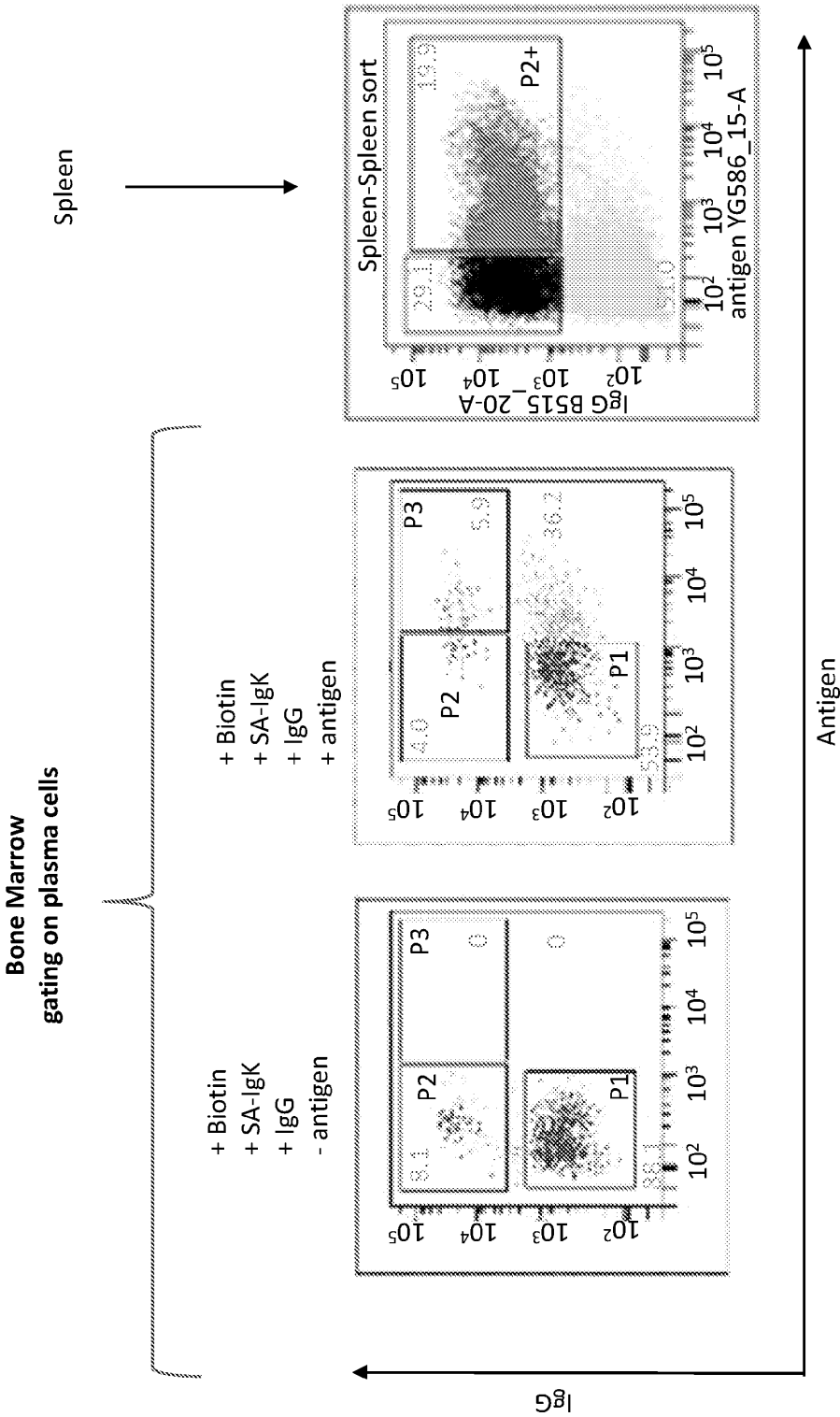


FIG. 14C (cont.)

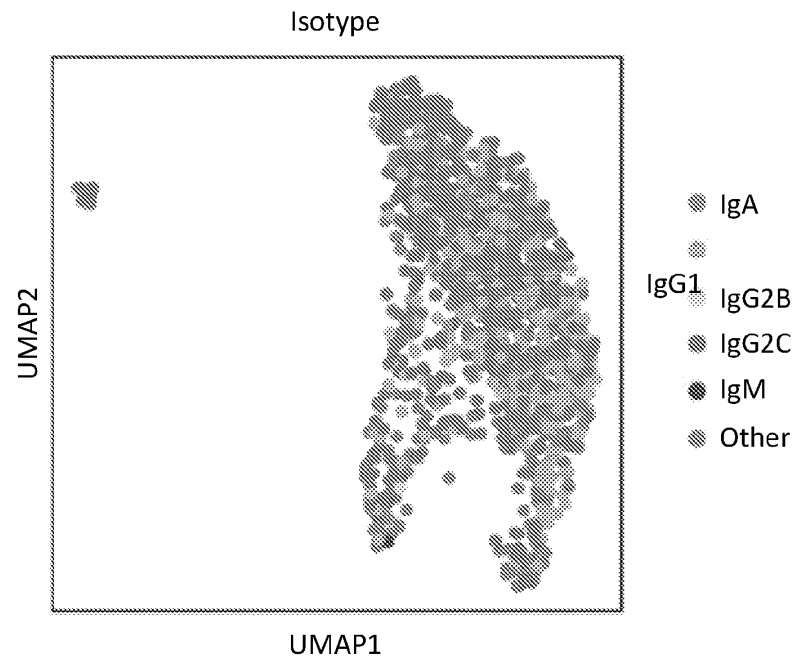


FIG. 15A

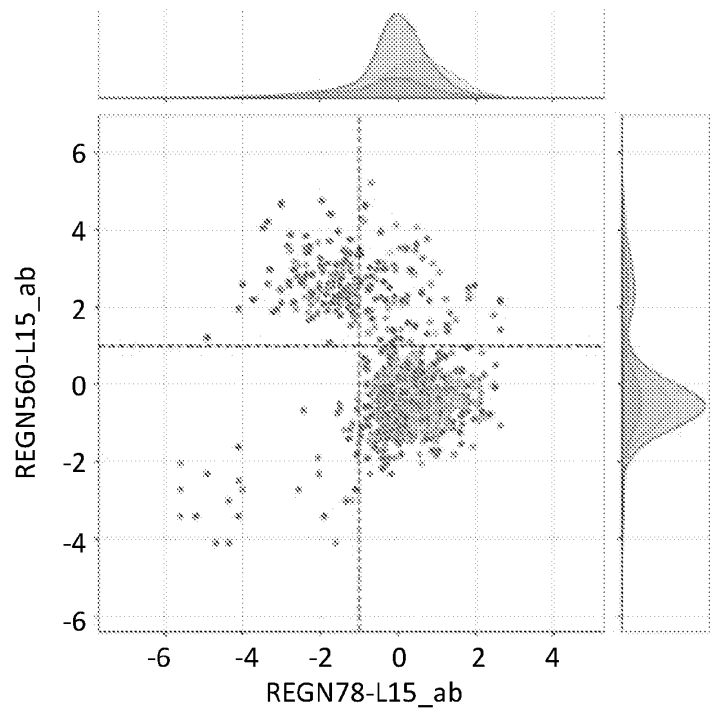


FIG. 15B

FIG. 15C

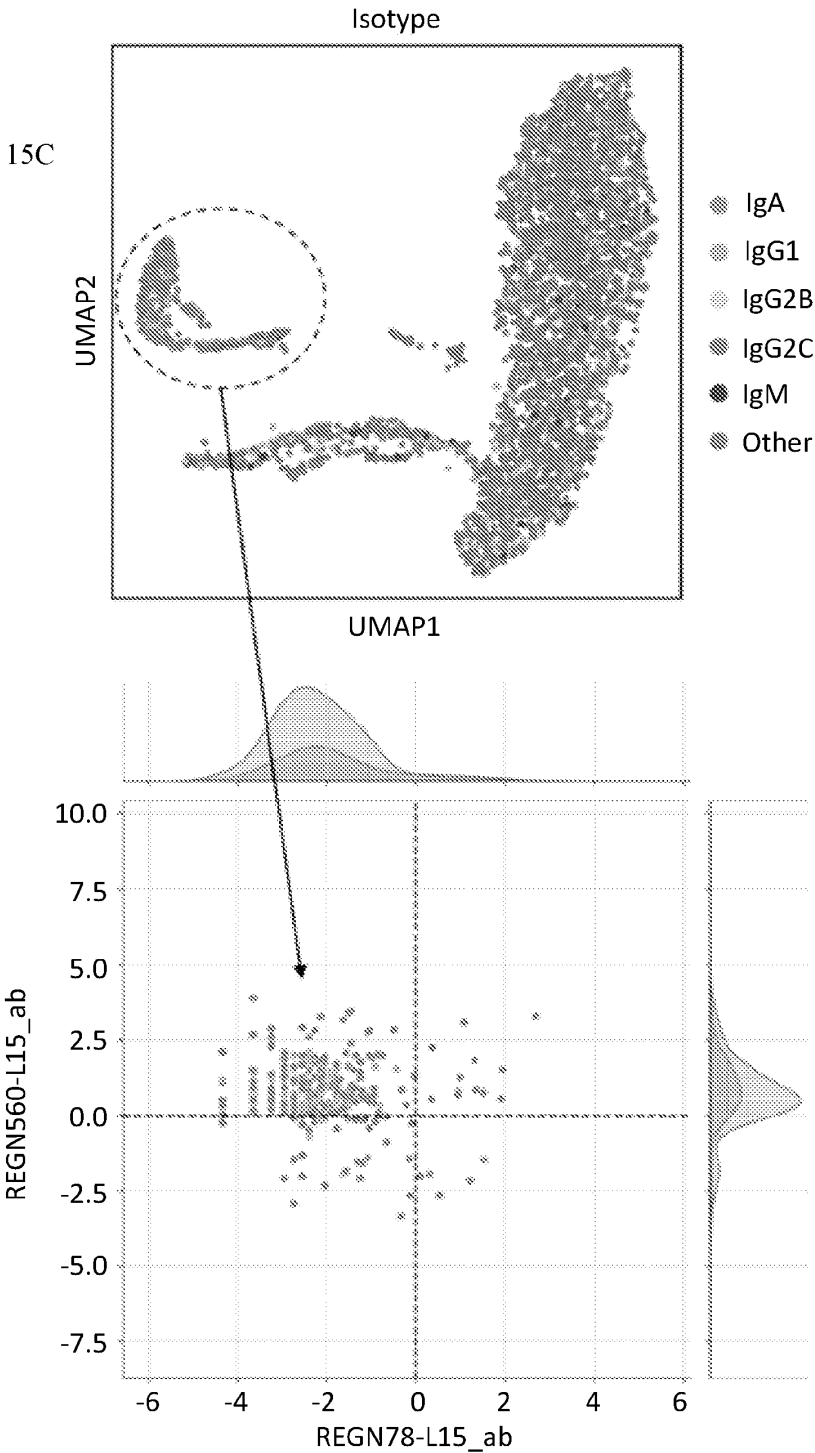


FIG. 15D

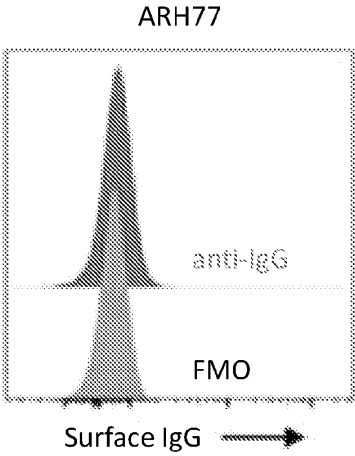


FIG. 16A

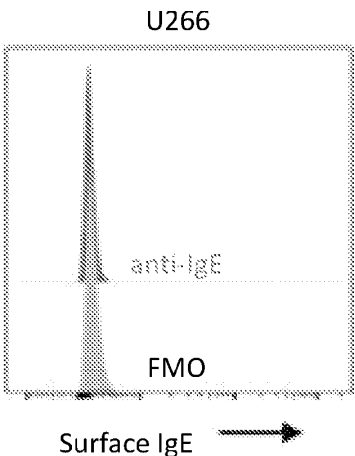


FIG. 16B

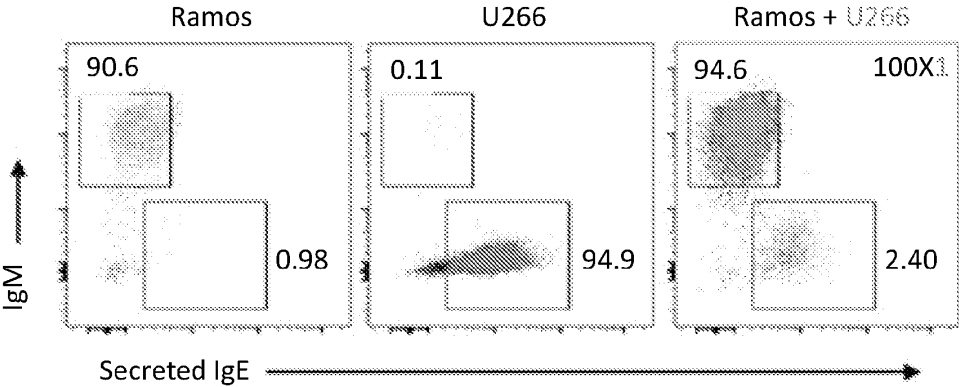


FIG. 16C

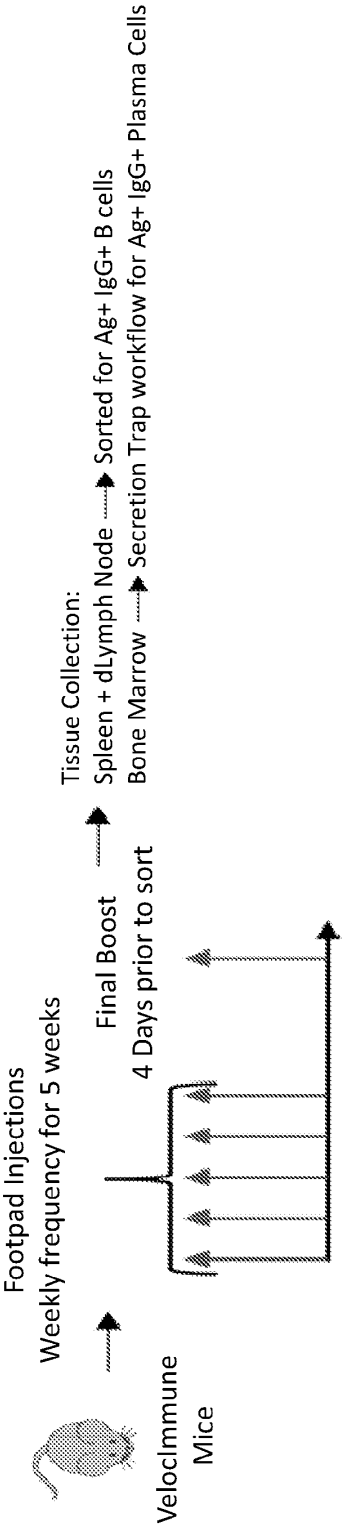


FIG. 17A

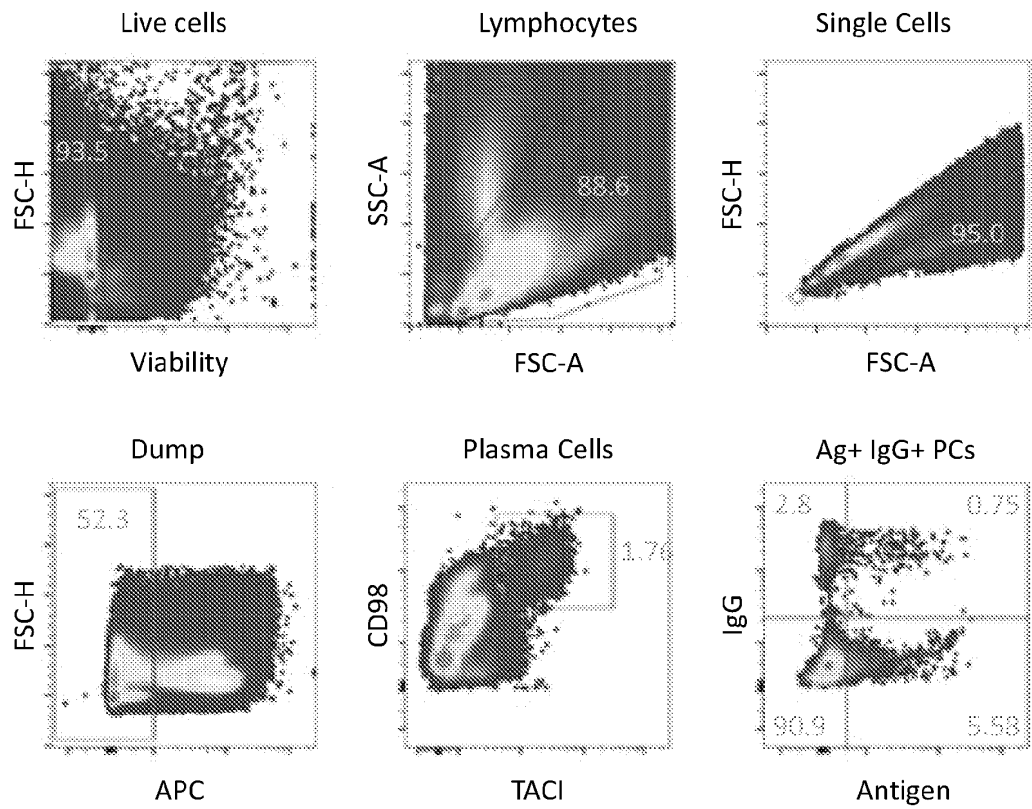


FIG. 17B

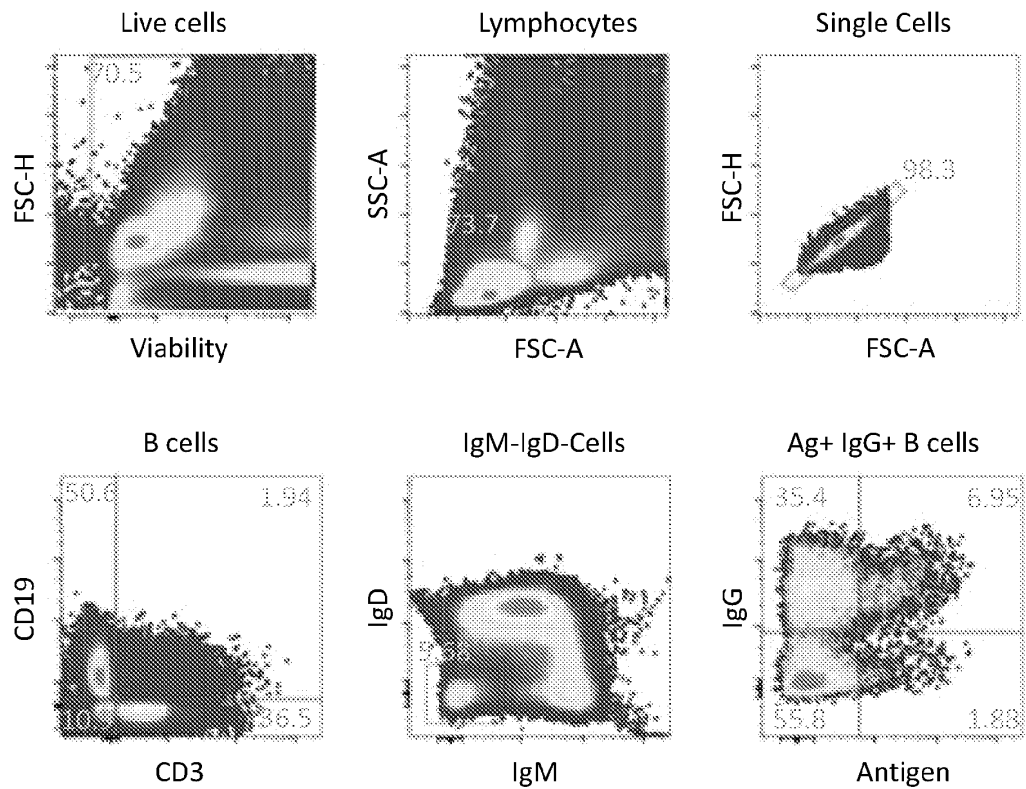


FIG. 17C

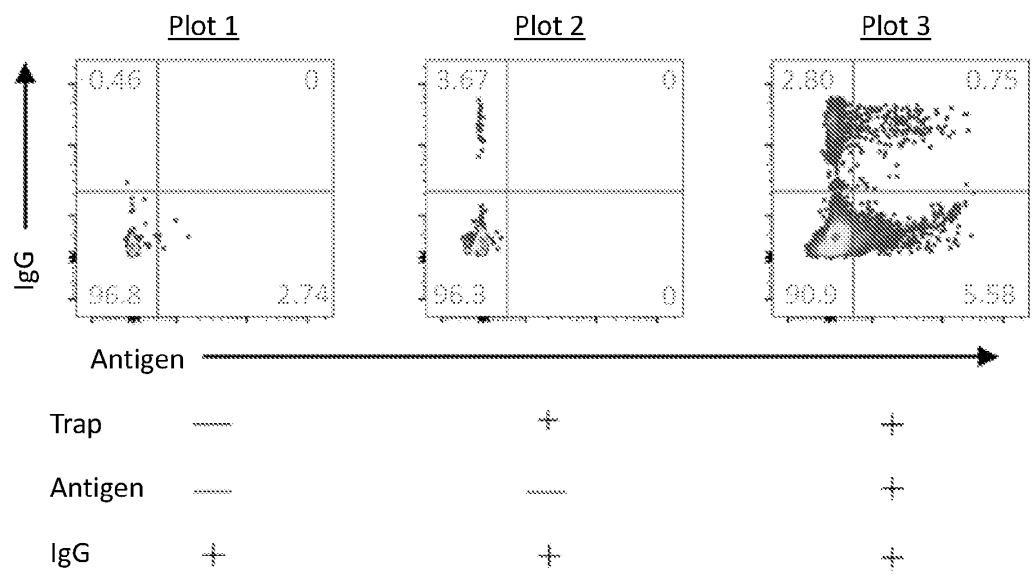


FIG. 17D

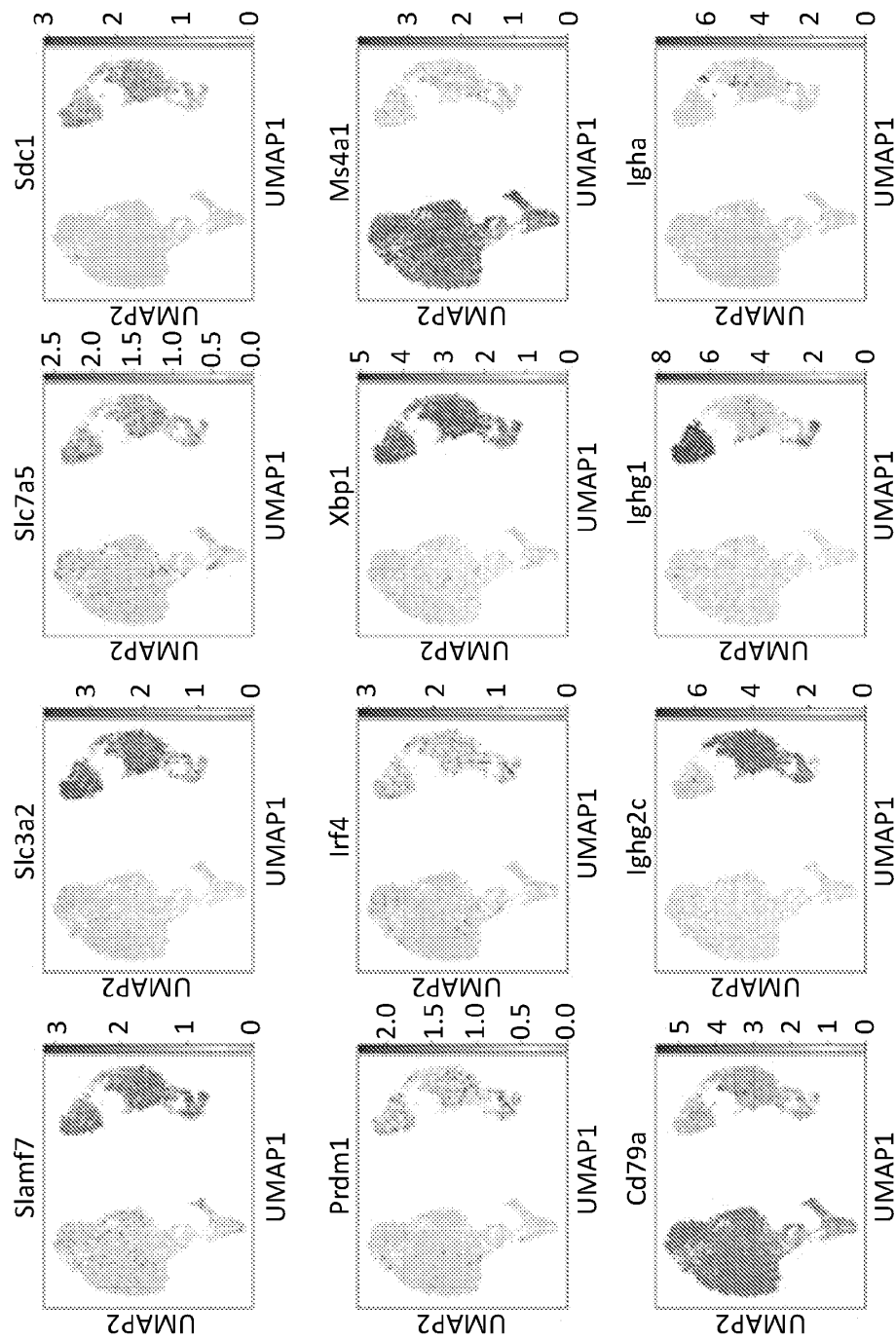
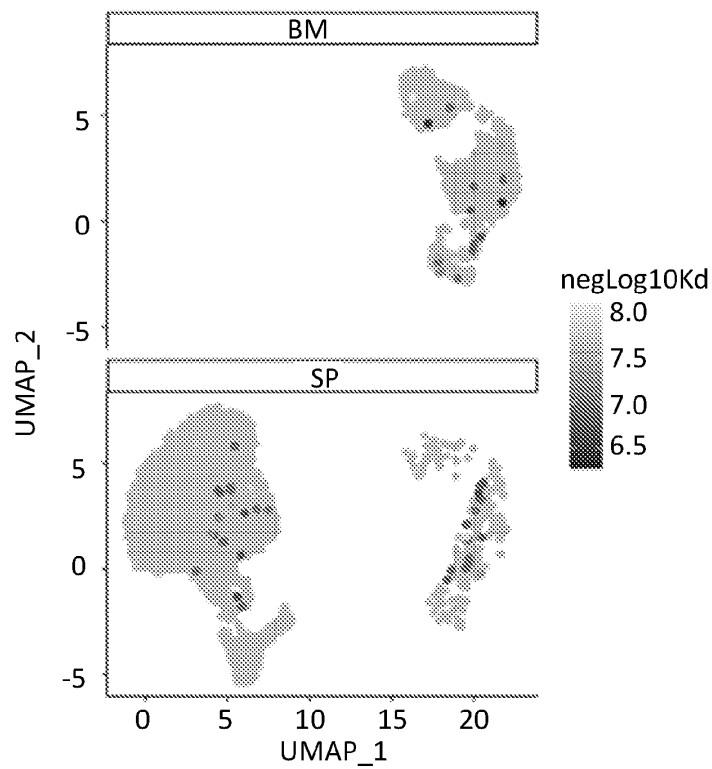
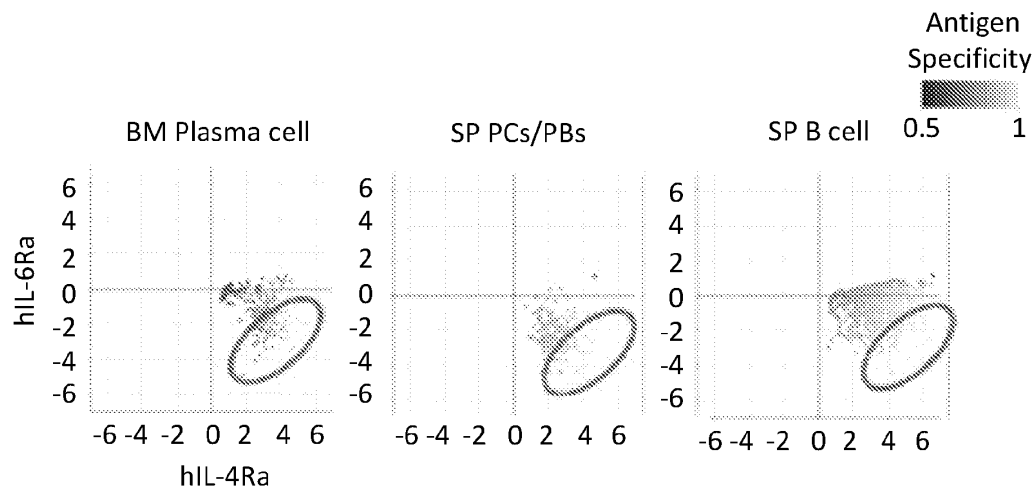


FIG. 18A



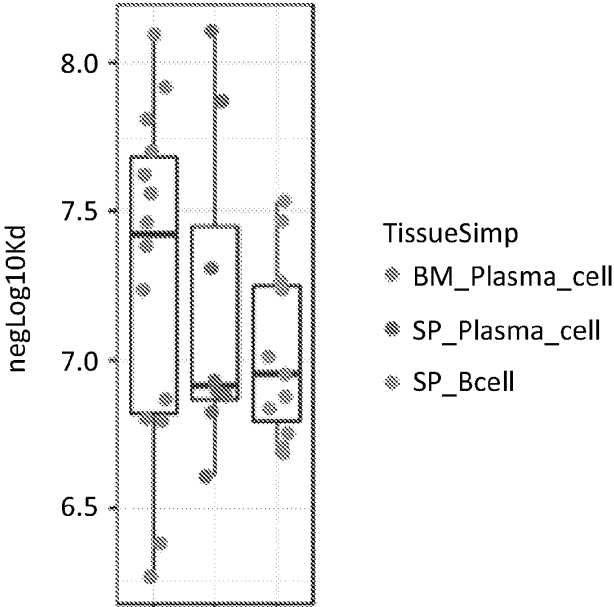


FIG. 18D

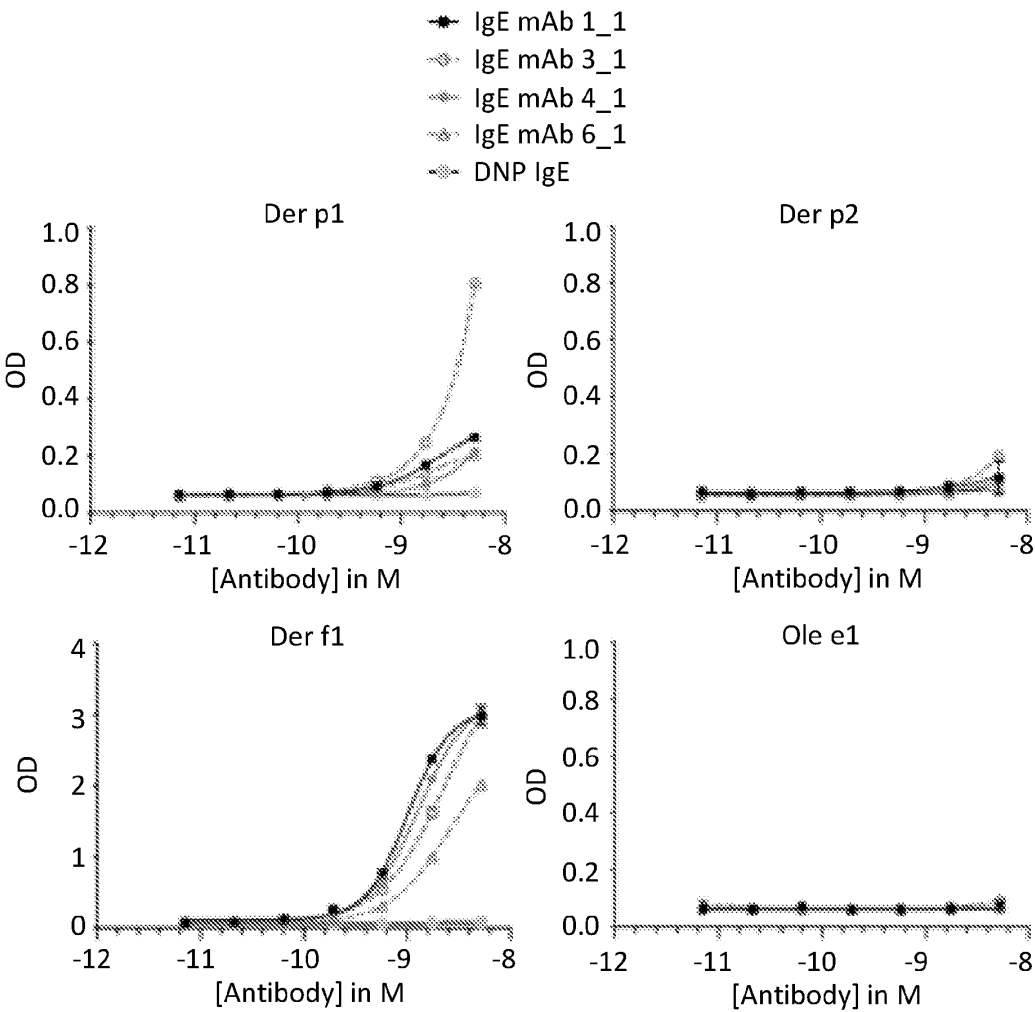


FIG. 19A

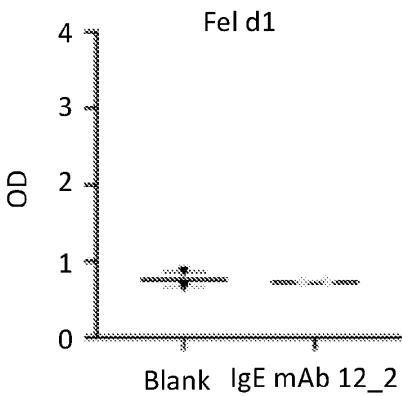


FIG. 19B

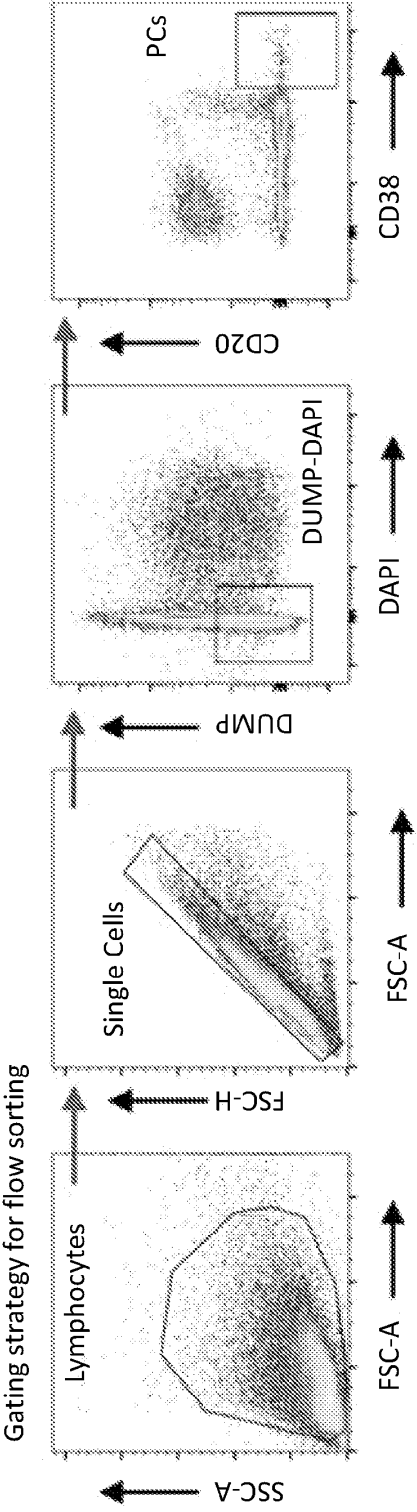


FIG. 20A

Donor BioIVT 97138

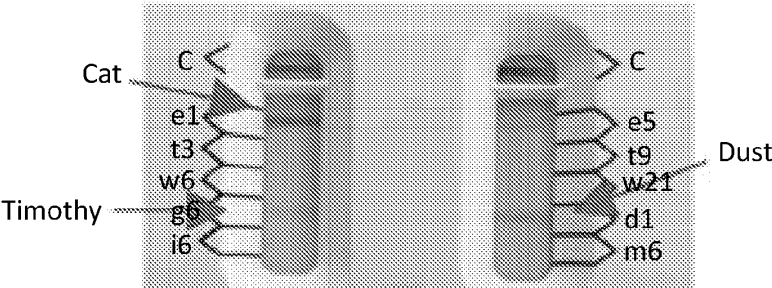


FIG. 20B

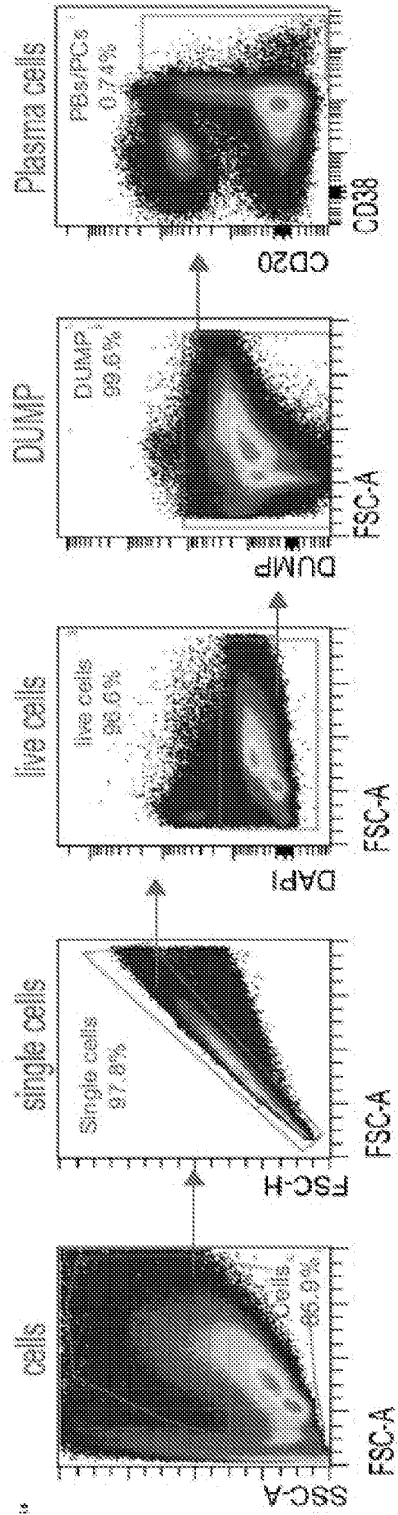


FIG. 21A

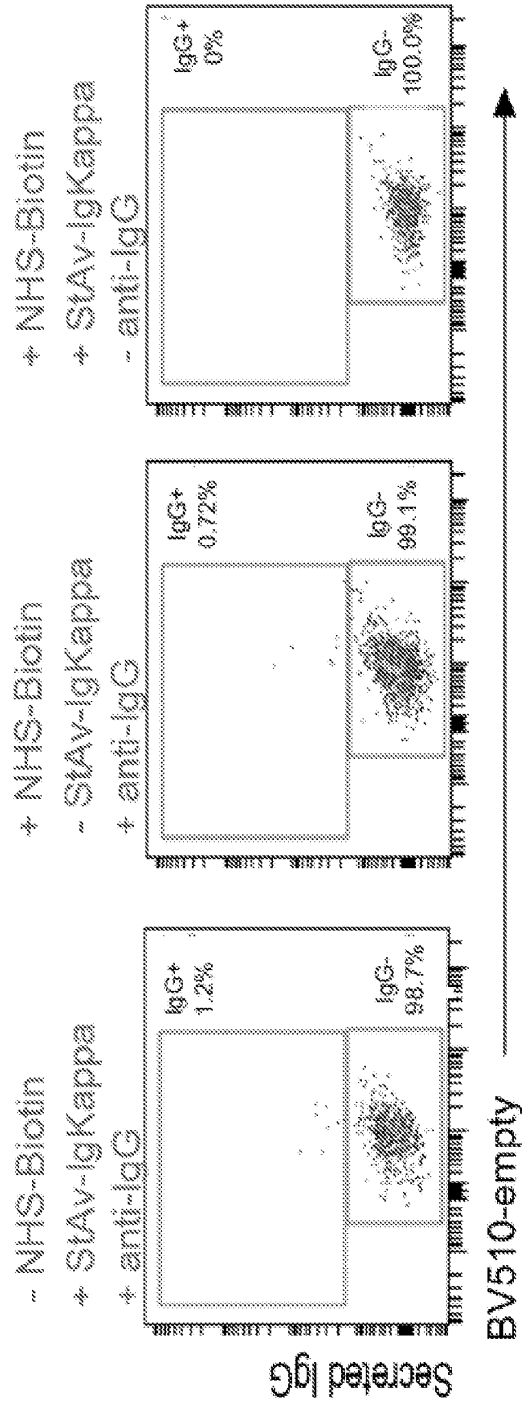


FIG. 2IB

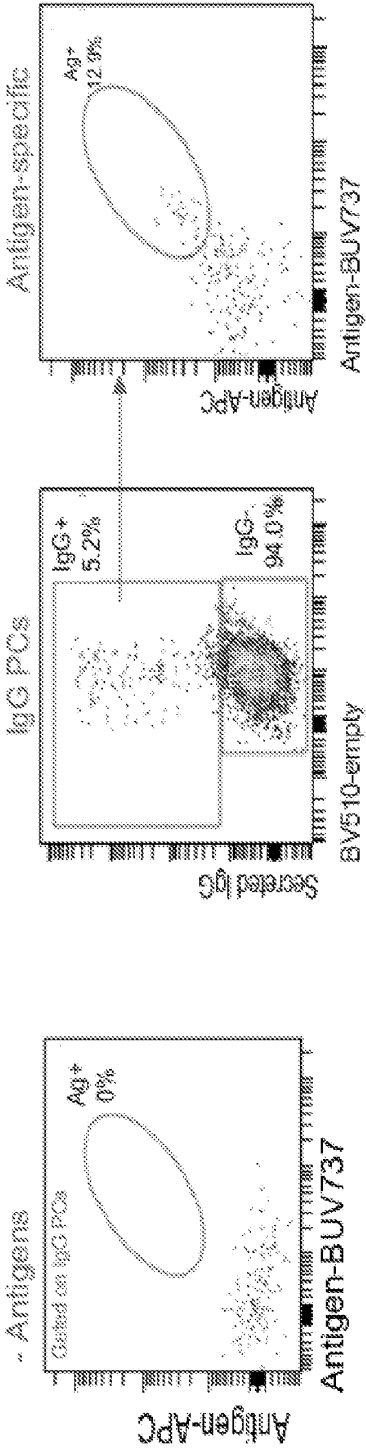


FIG. 21D

FIG. 21C

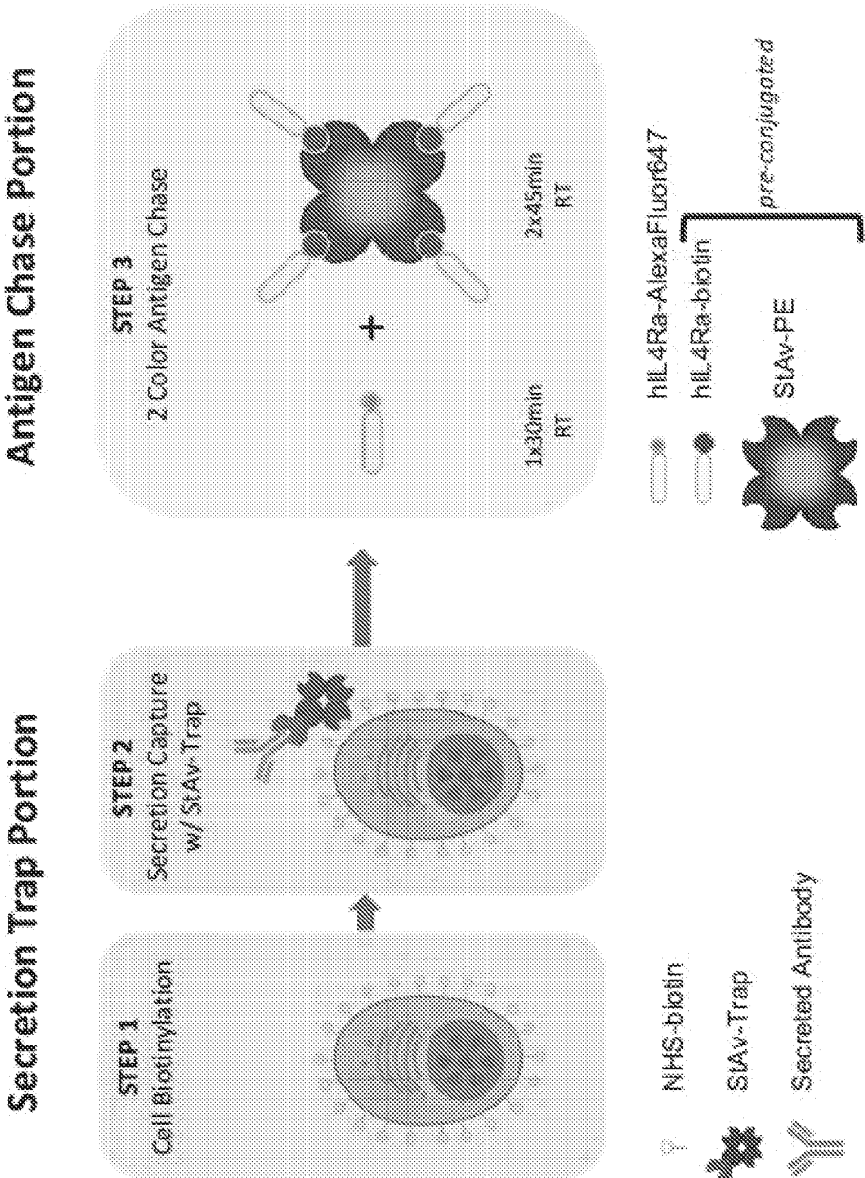


FIG. 22

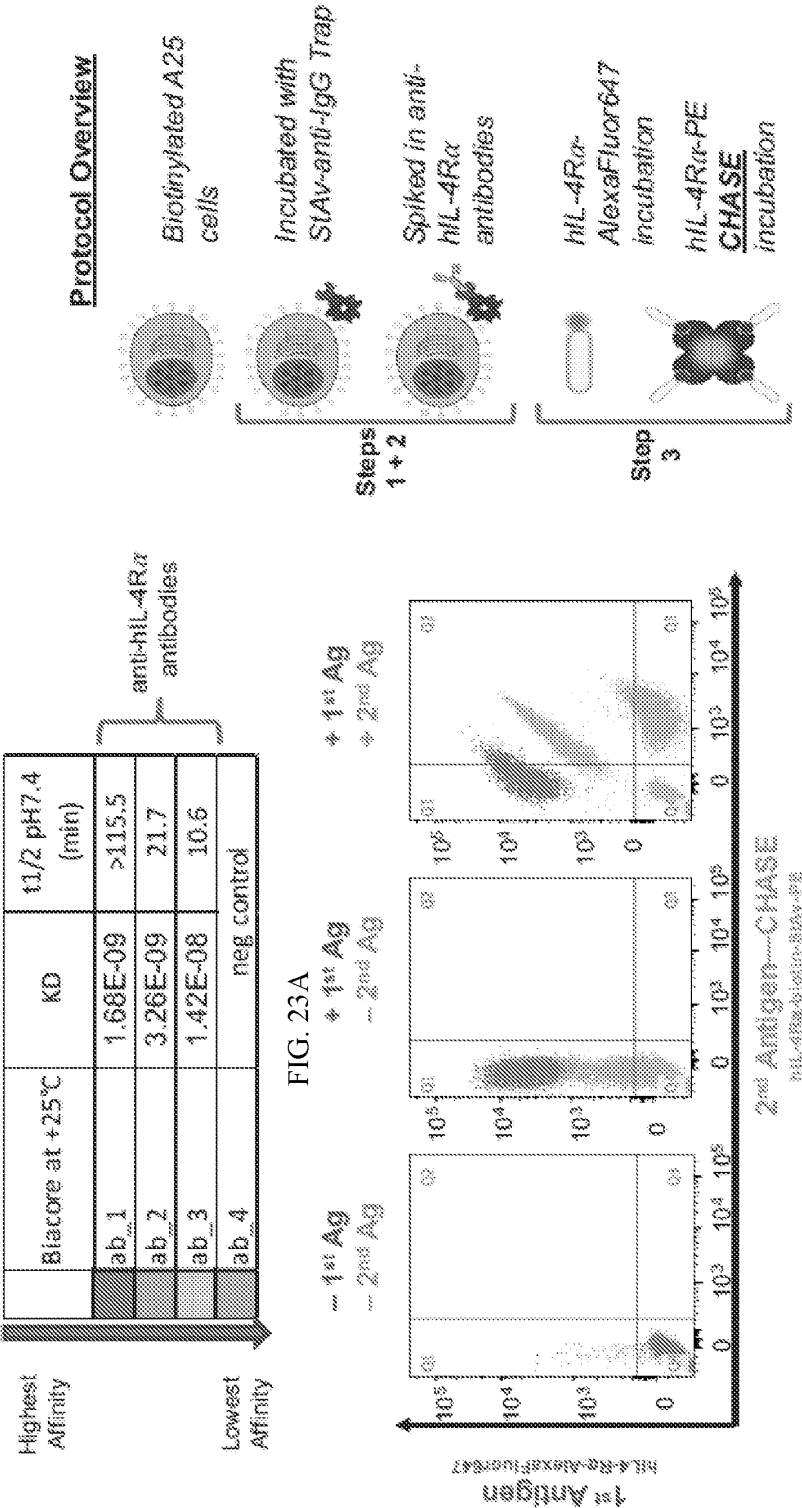


FIG. 23B

FIG. 23C

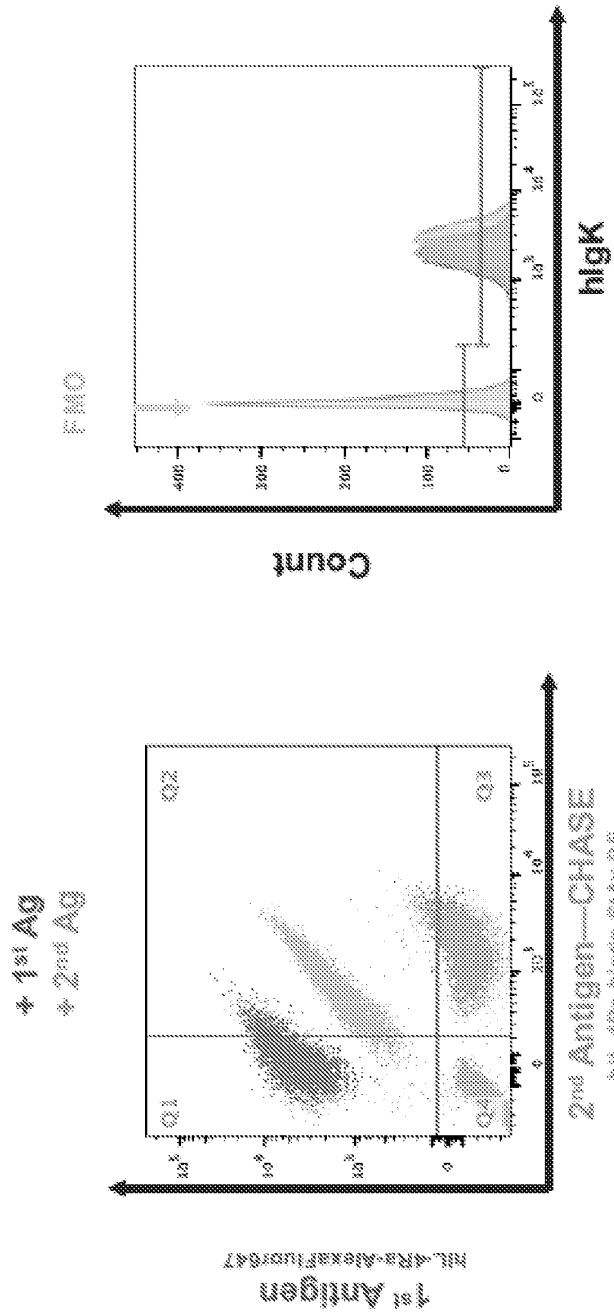


FIG. 23D