

Strict acceptor substrate specificity of glycosyltransferases

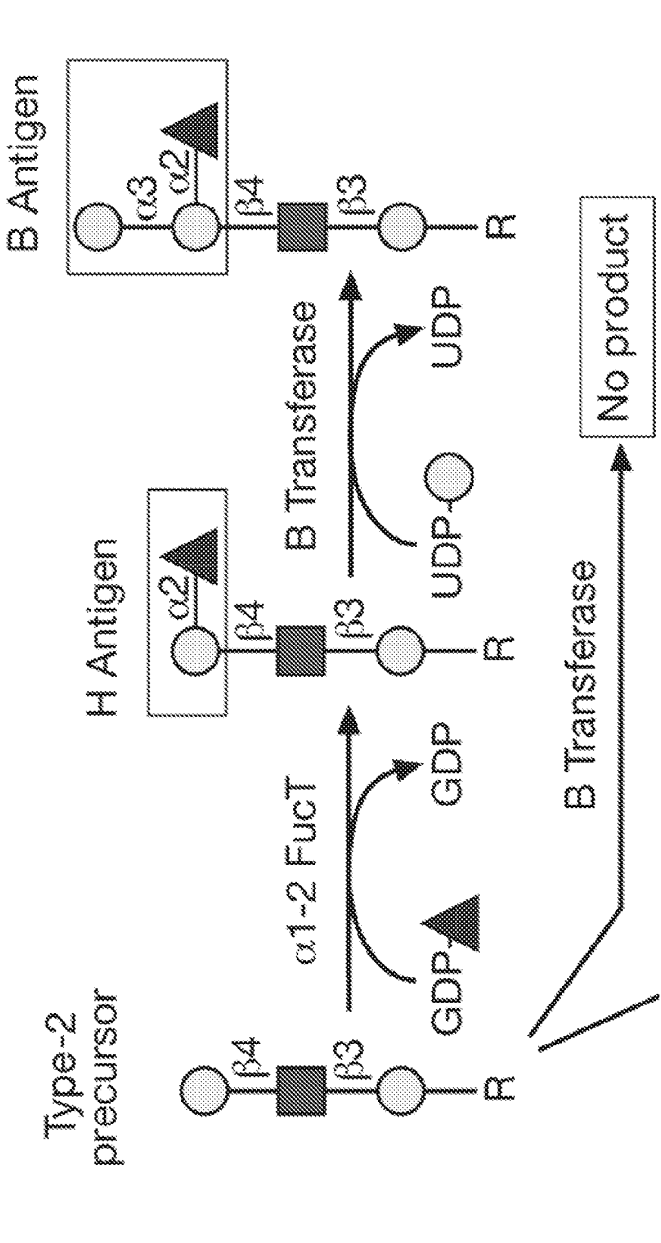


FIG. 1

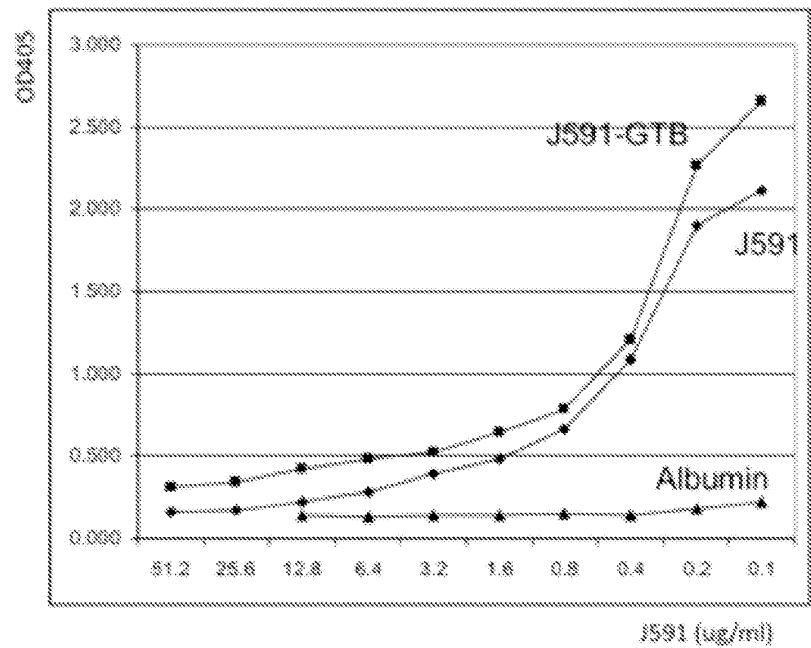


FIG. 2A

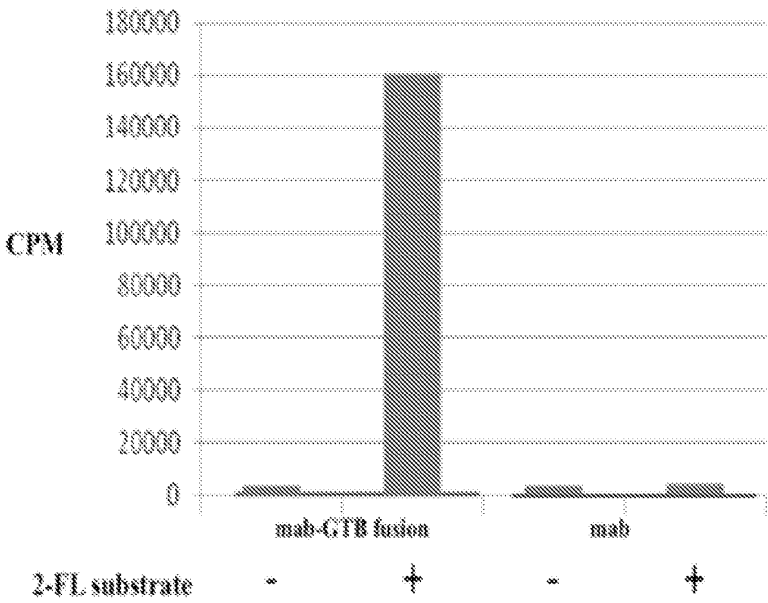


FIG. 2B

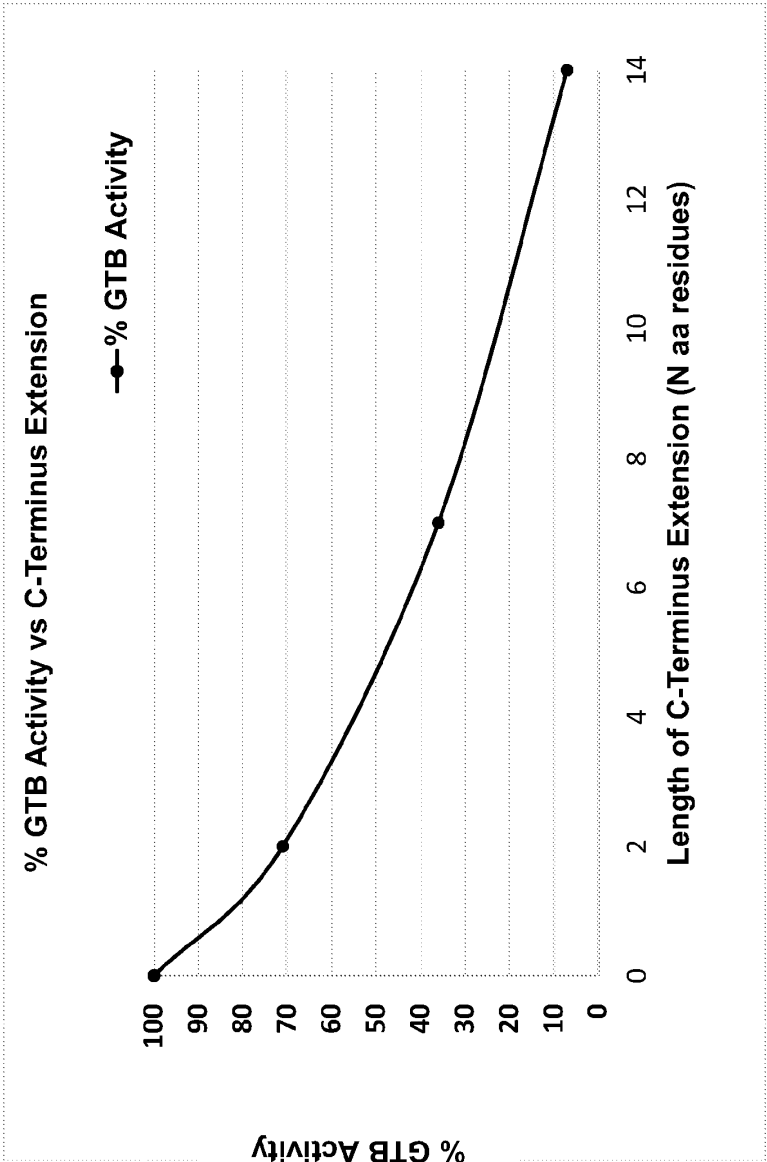


FIG. 3

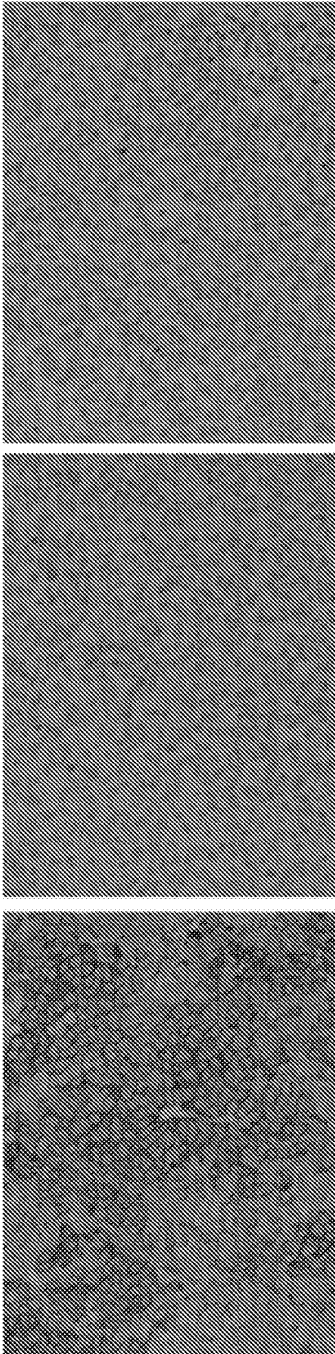


FIG. 4

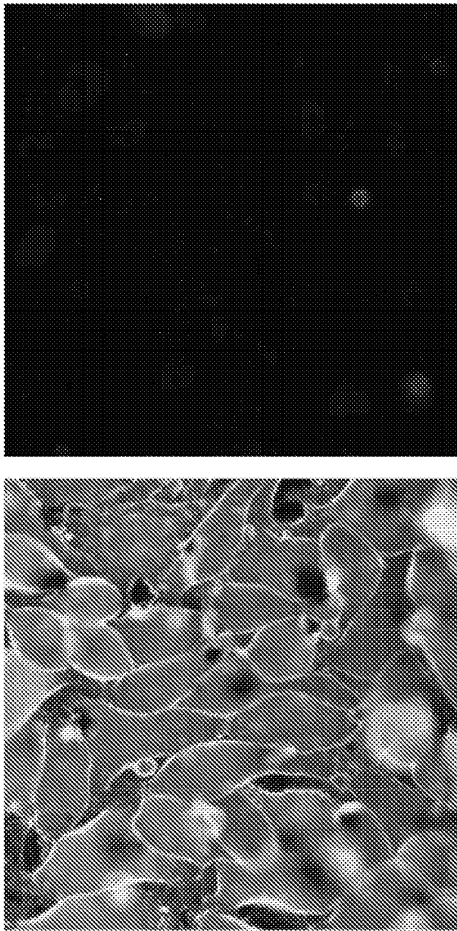
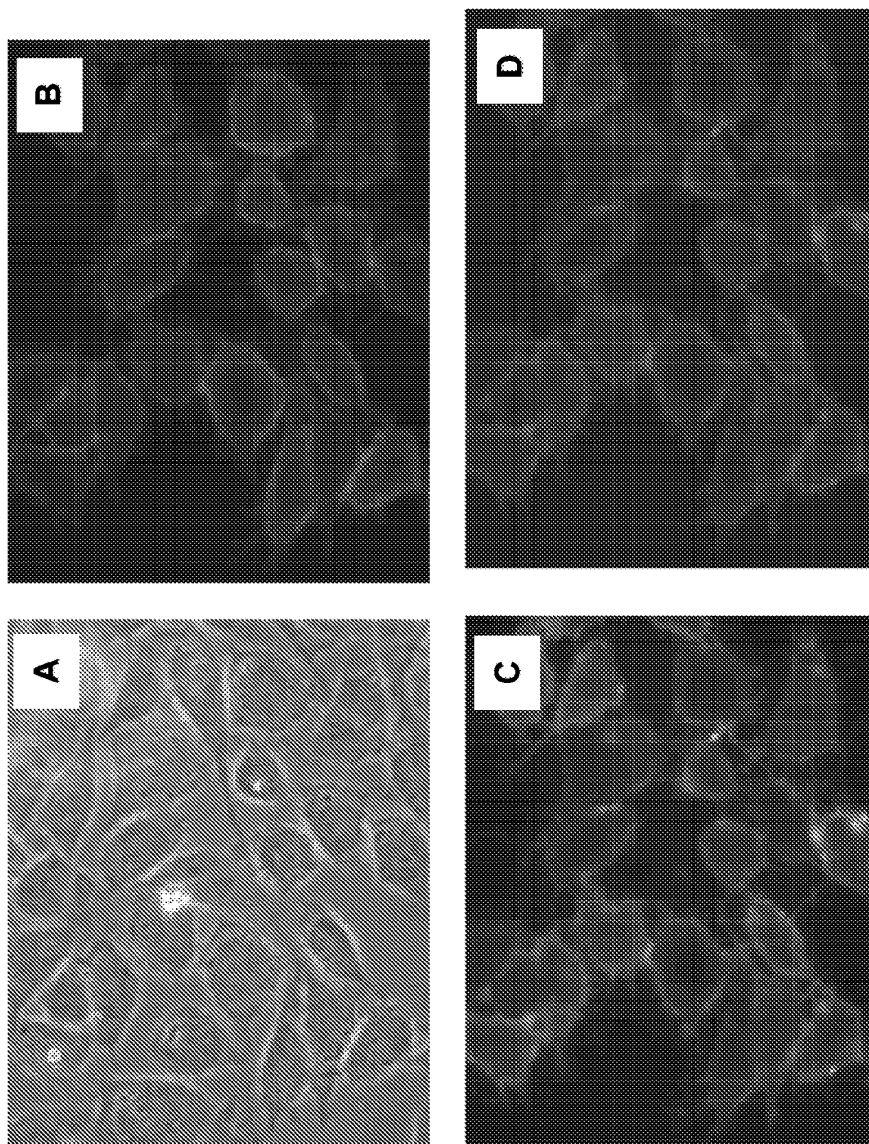


FIG. 5



FIGs. 6A-6D

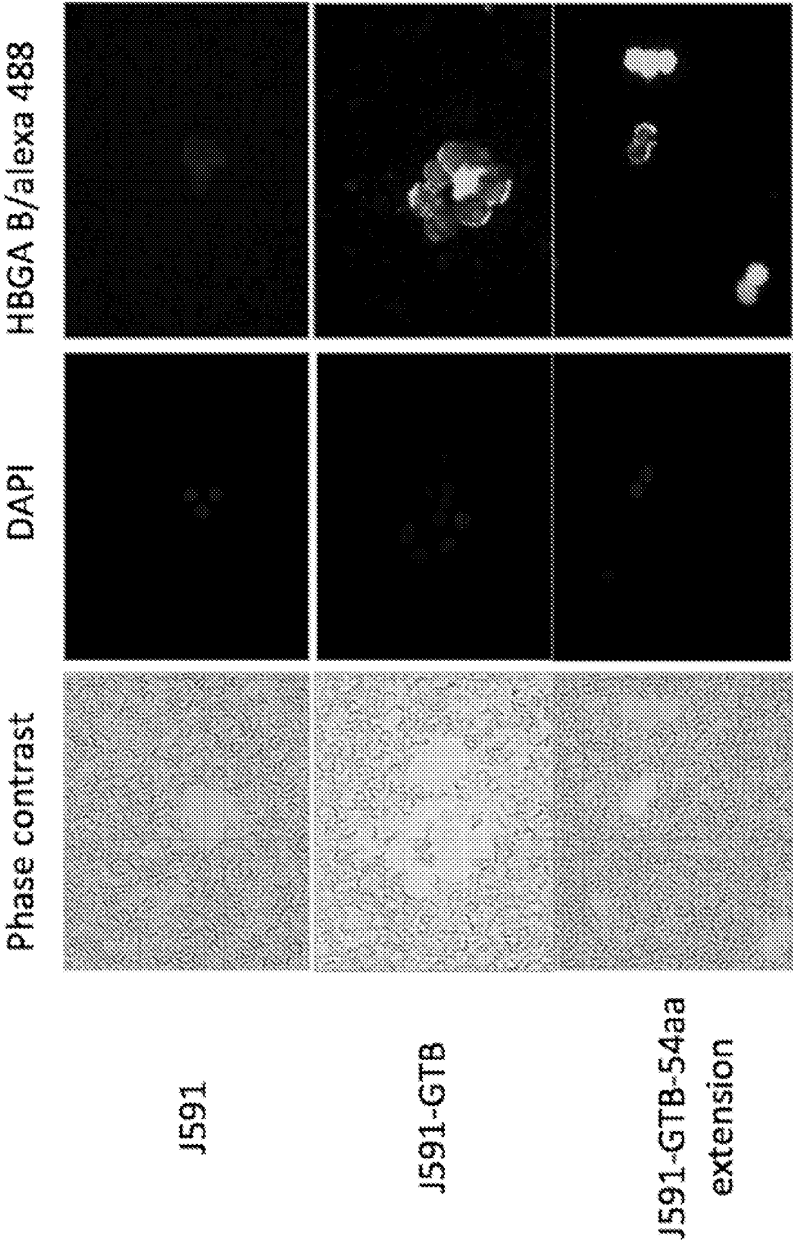
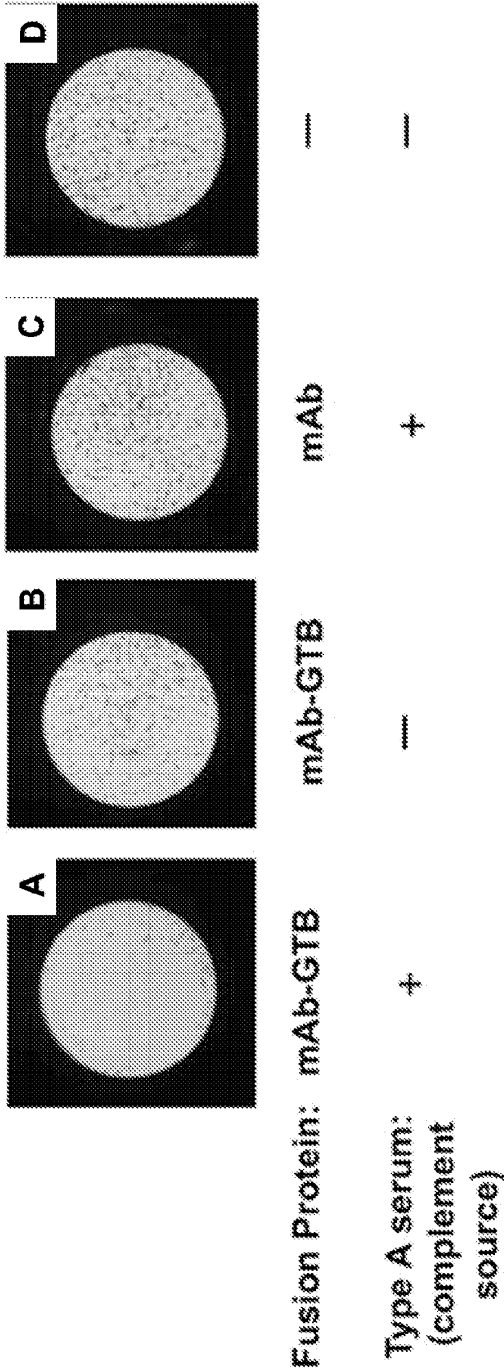


FIG. 7



FIGs. 8A-8D

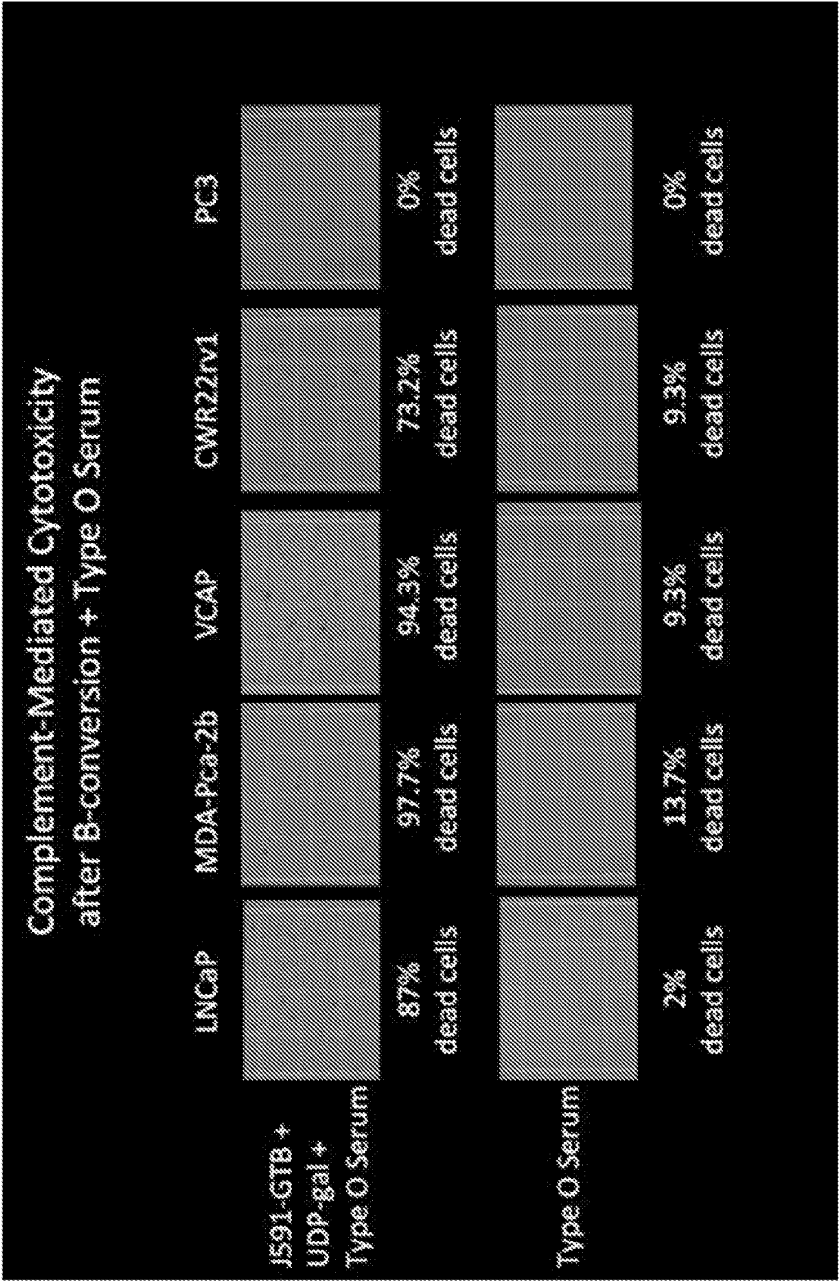
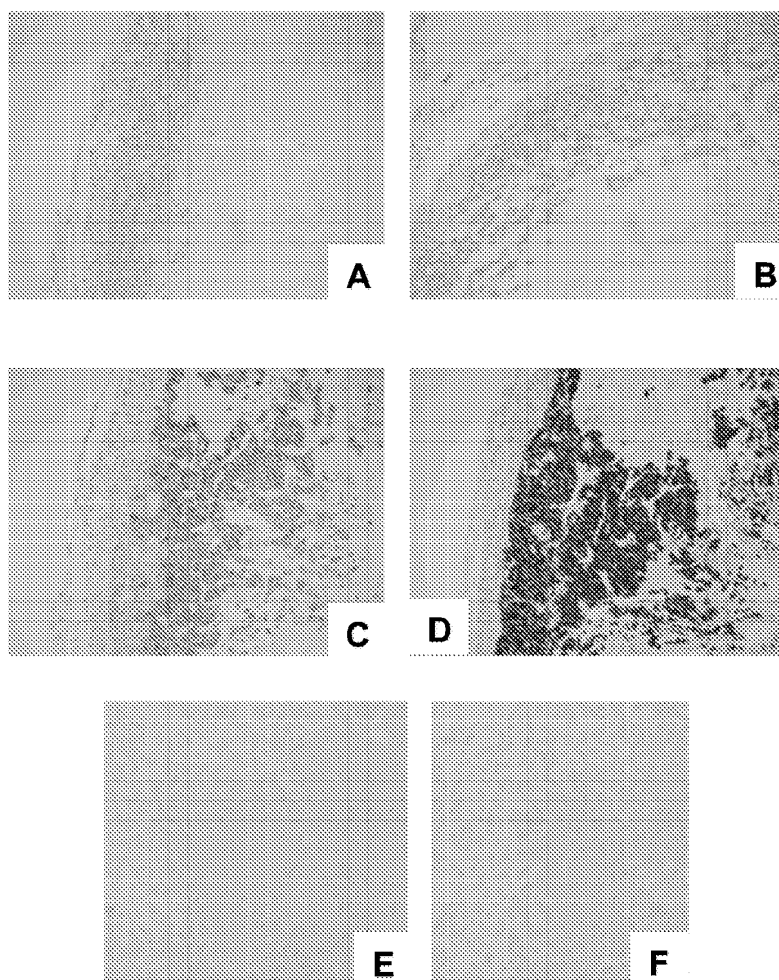


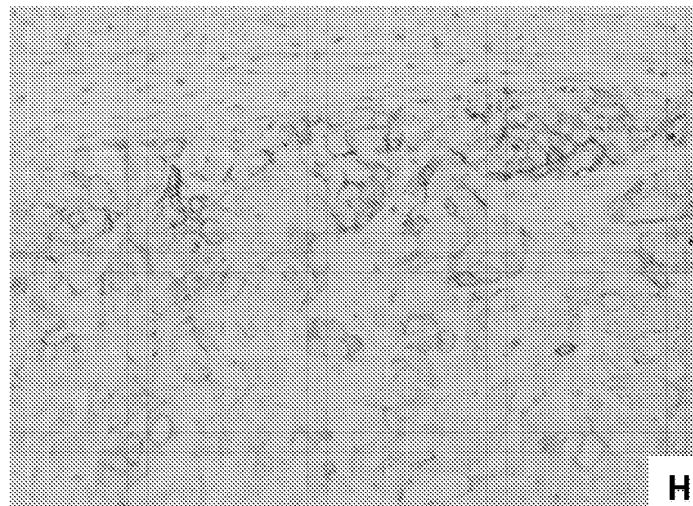
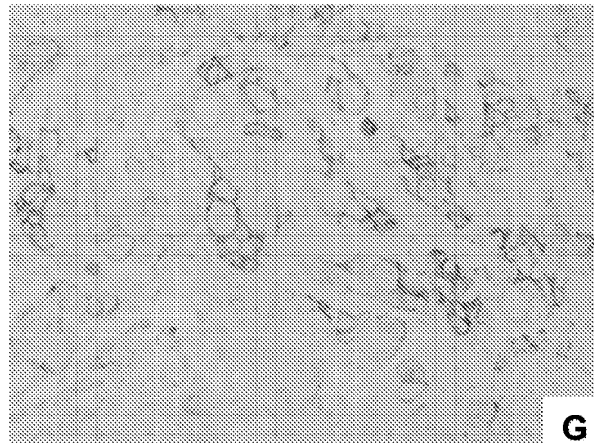
FIG. 9

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FIGs. 10A-10F

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FIGs. 10G-10H

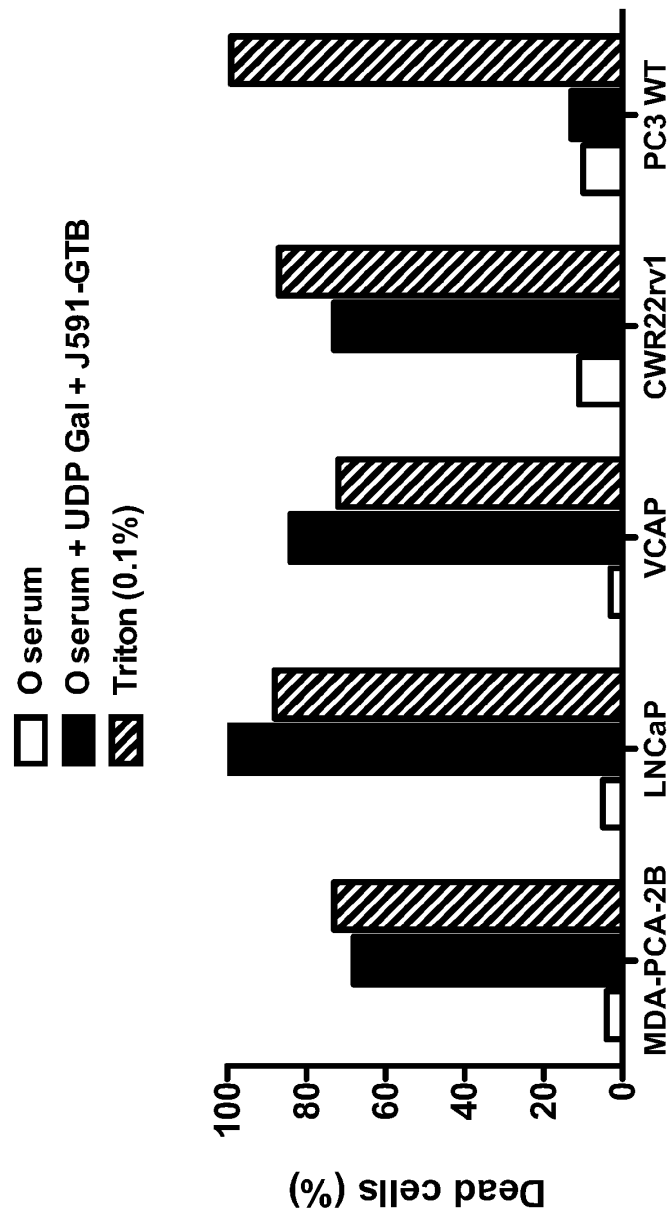


FIG. 11A

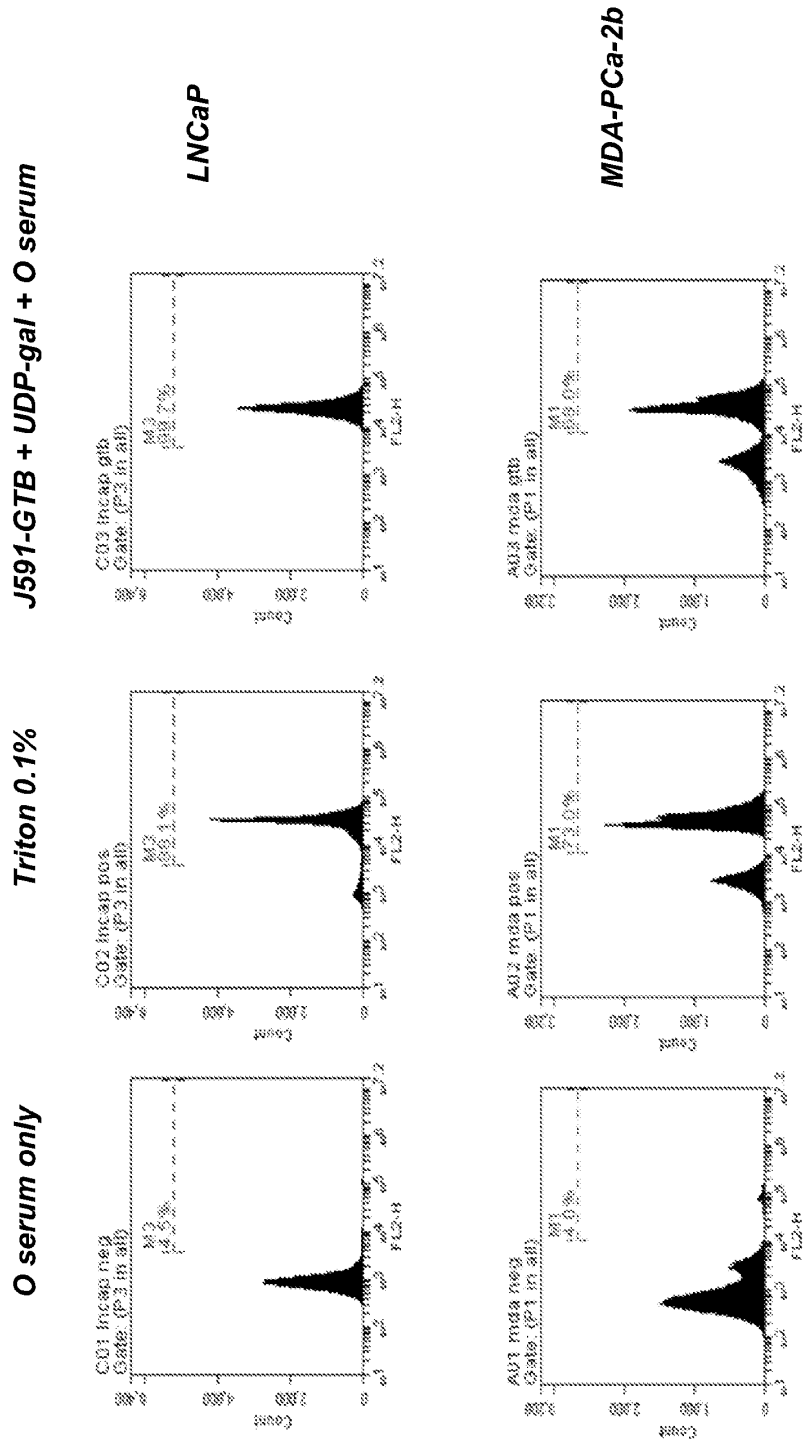


FIG. 11B

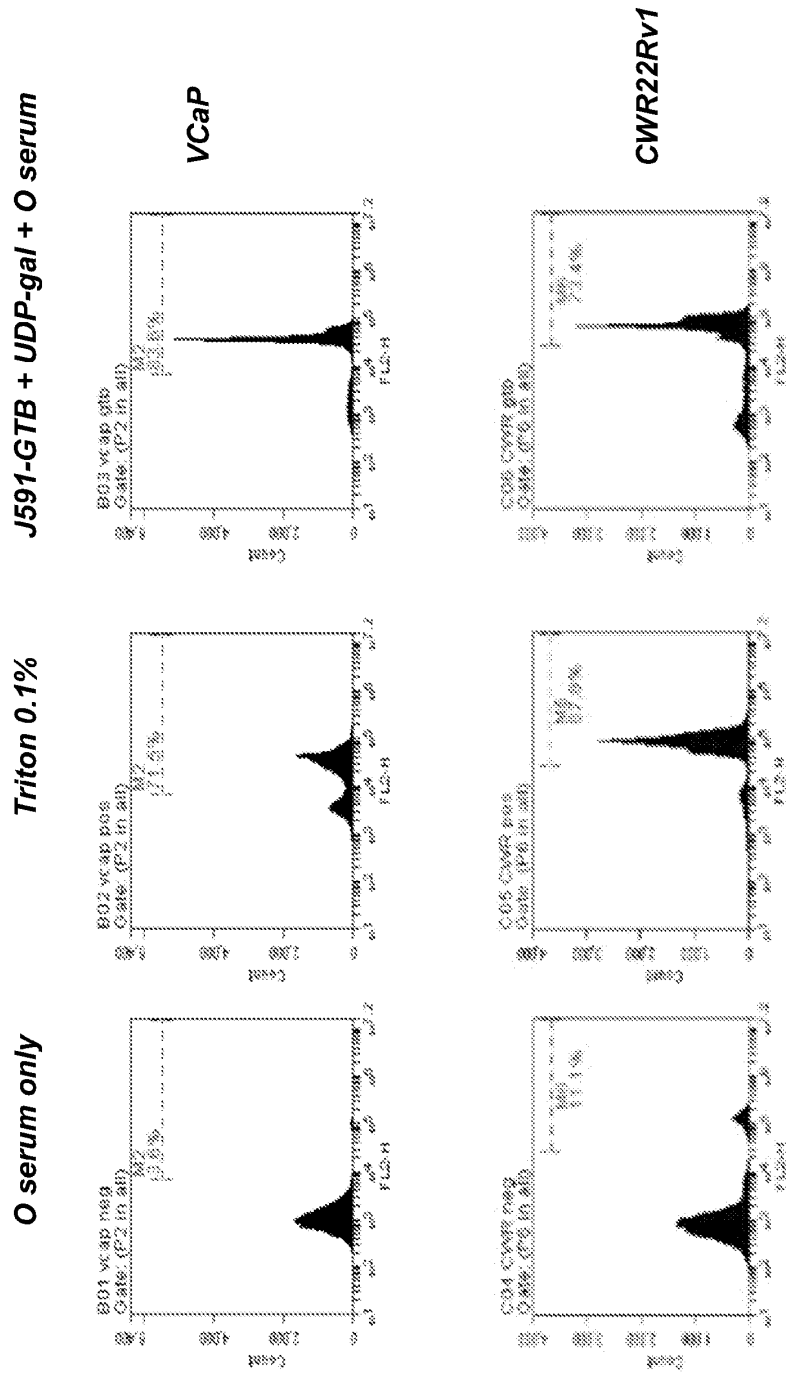


FIG. 11B (continued)

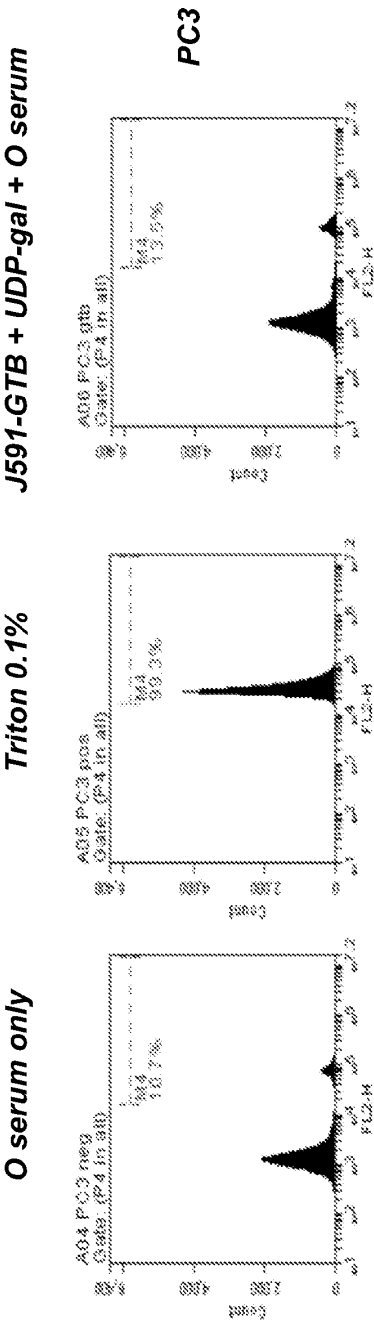
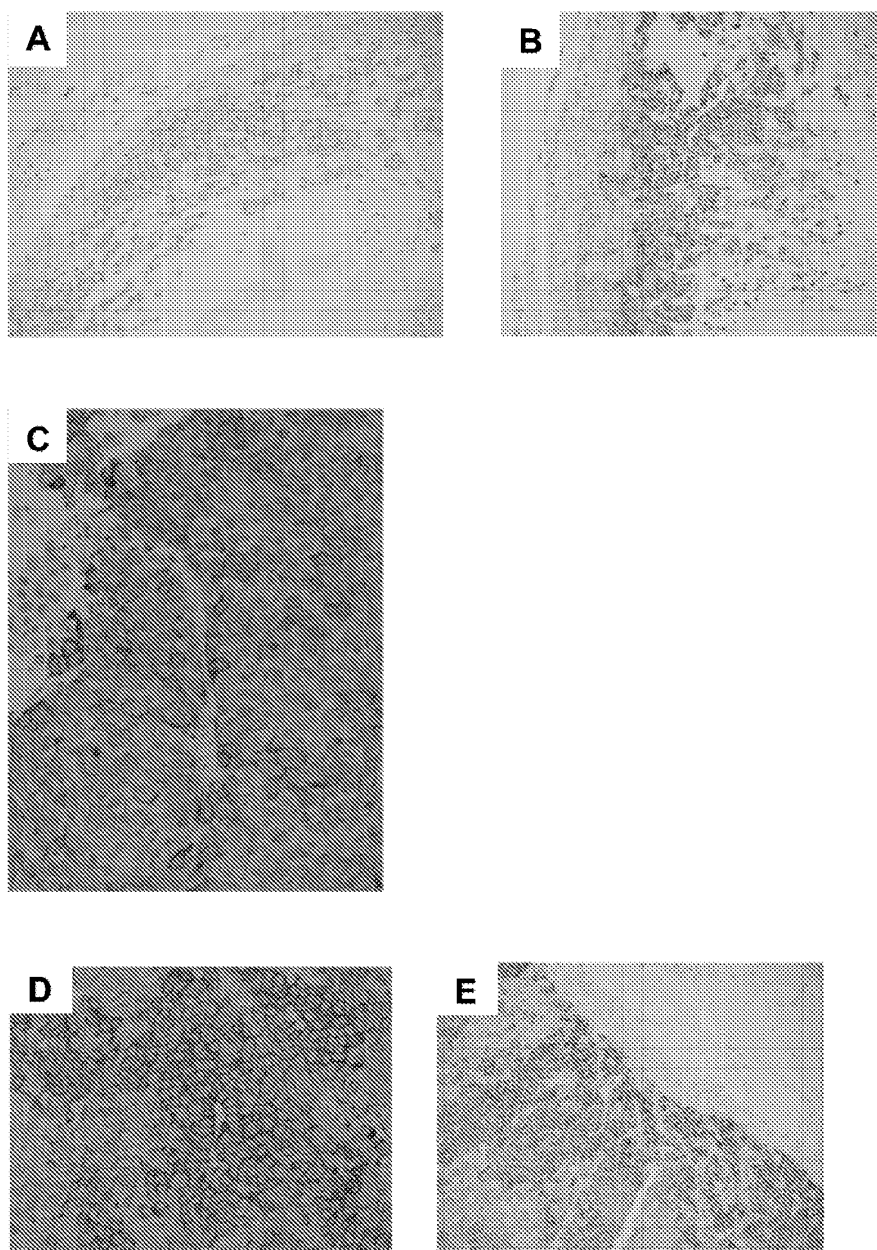
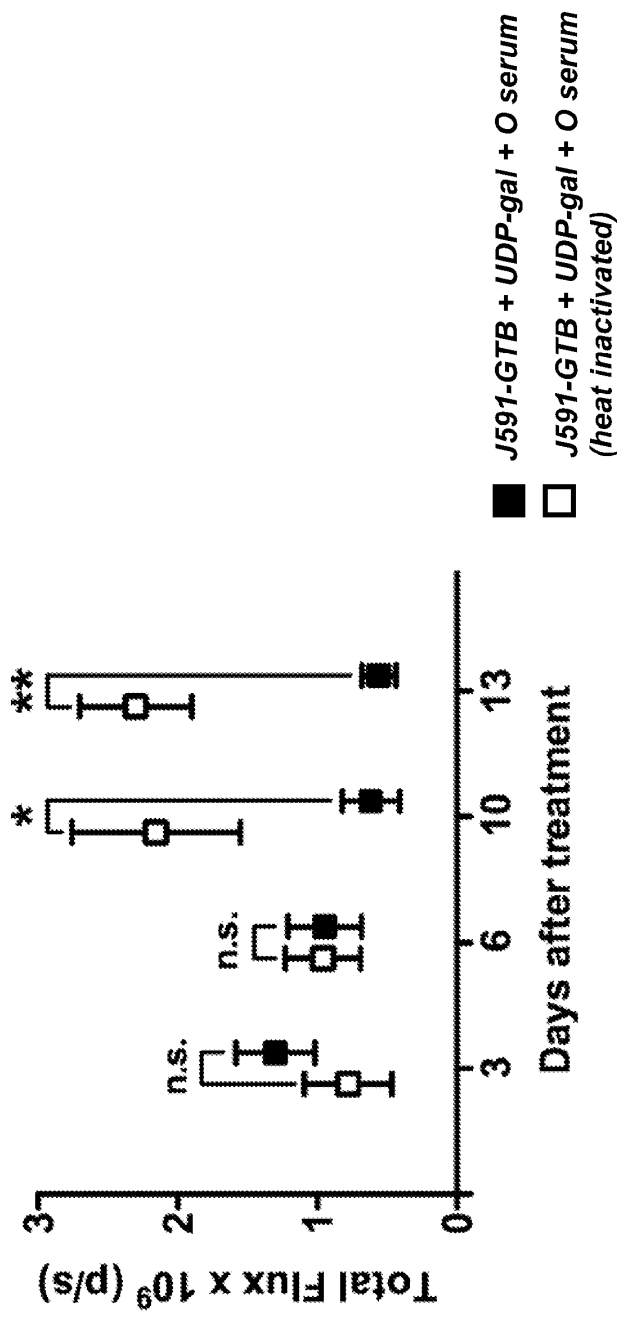


FIG. 11B (continued)

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FIGs. 12A-12E



* p= 0.043
** p= 0.0032

FIG. 13A

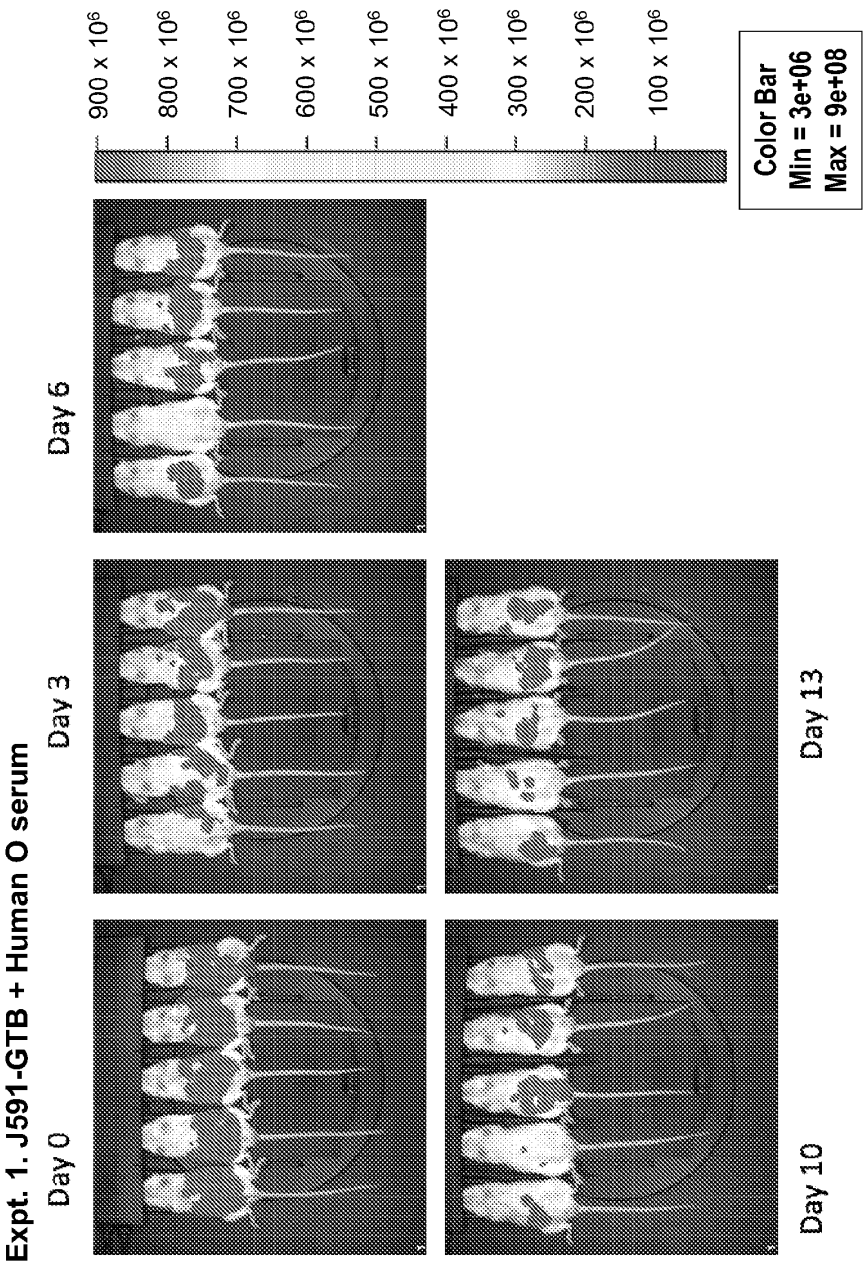


FIG. 13B

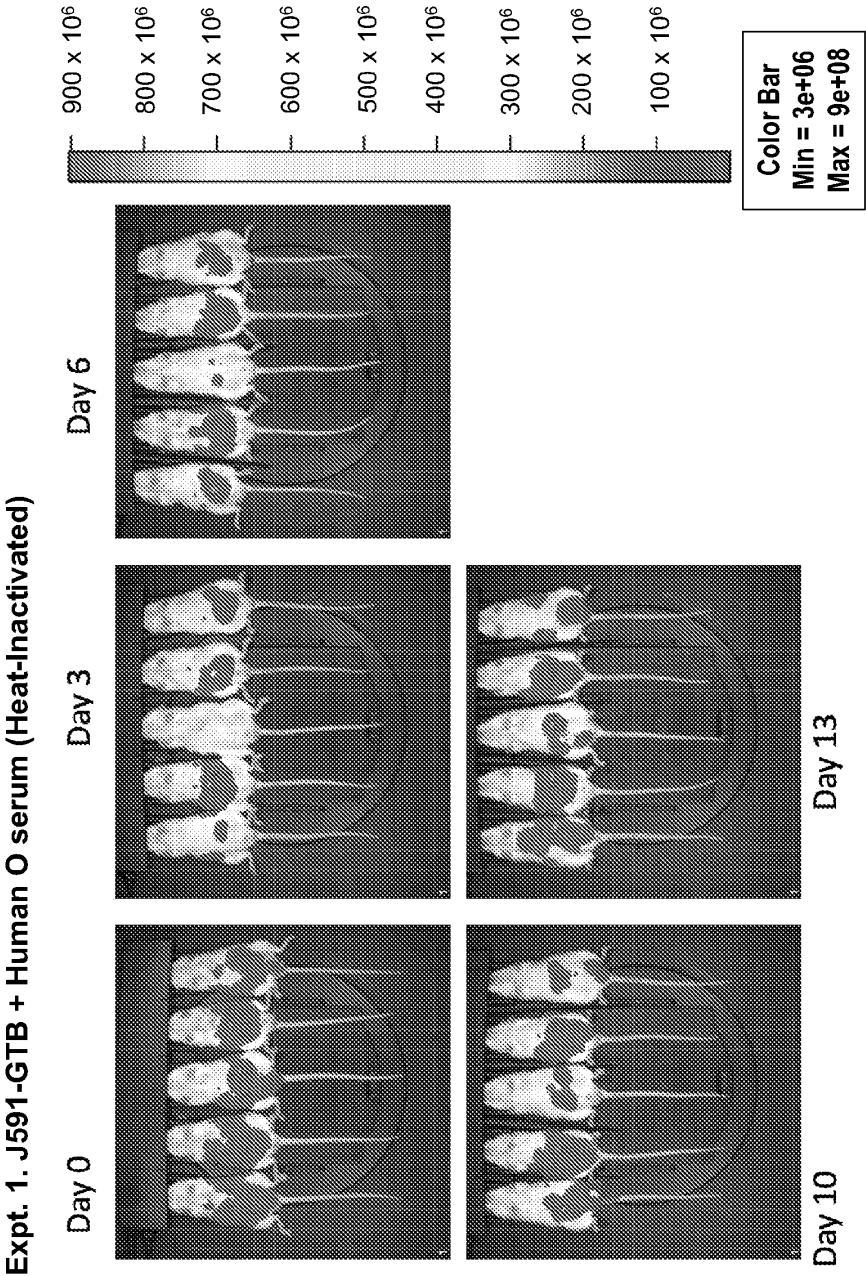


FIG. 13B (continued)

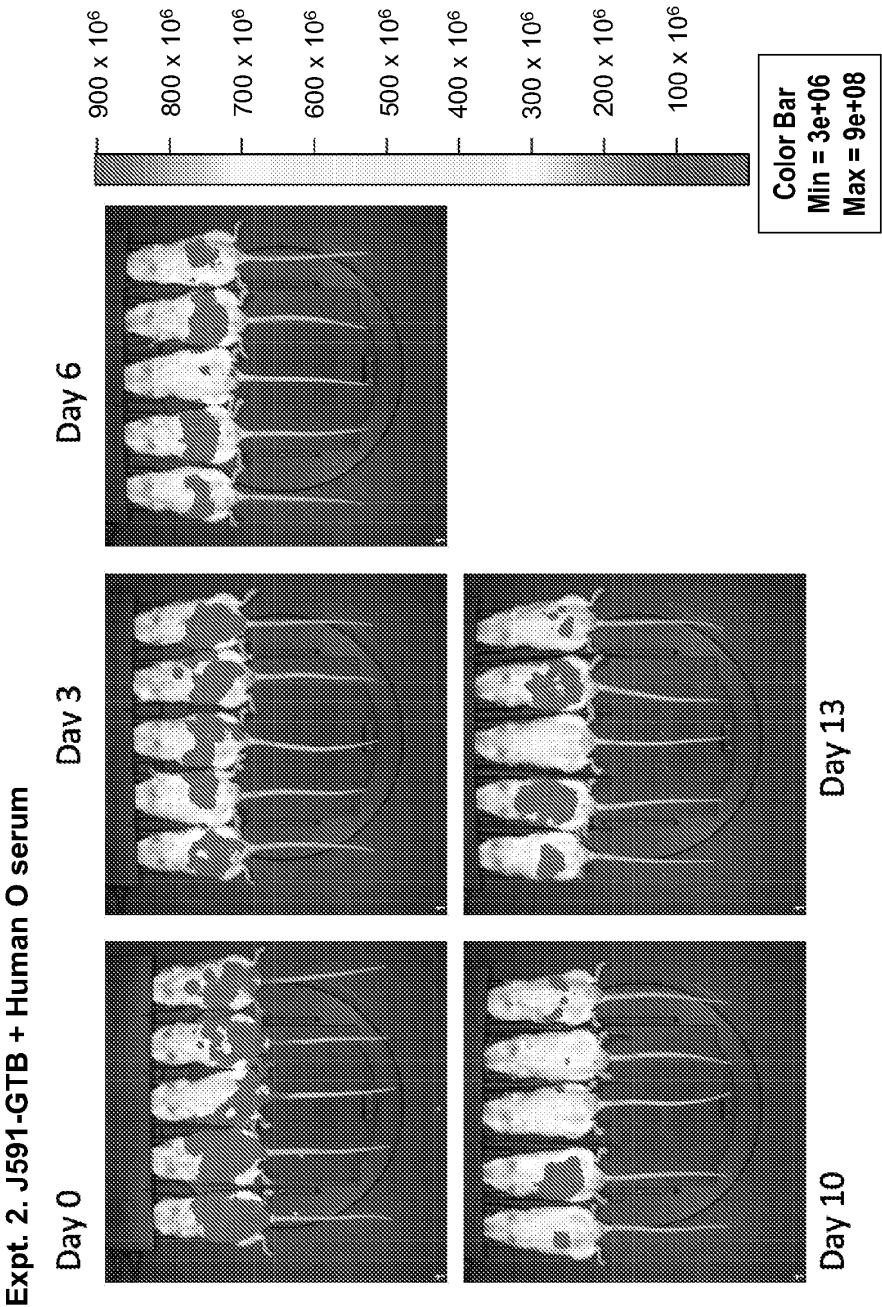


FIG. 14A

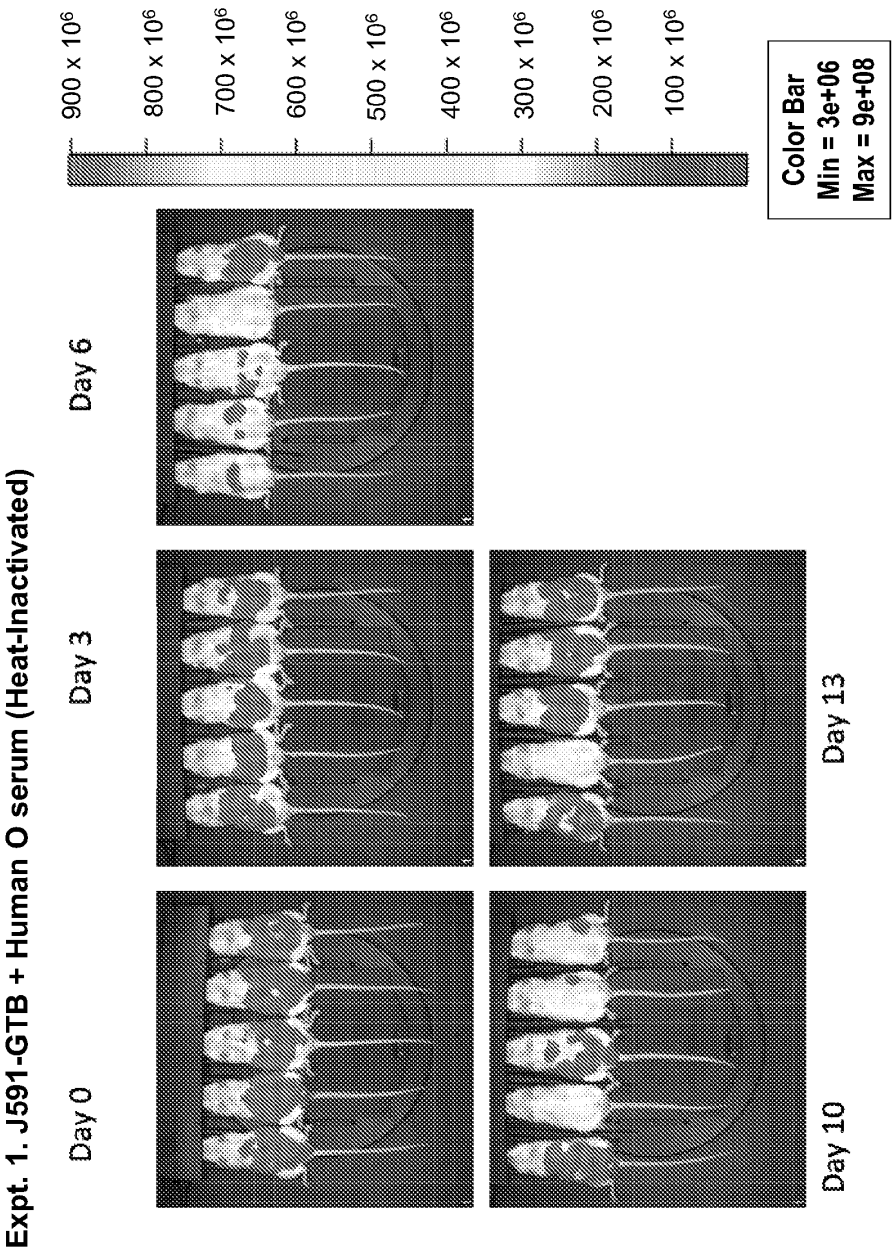


FIG. 14A (continued)

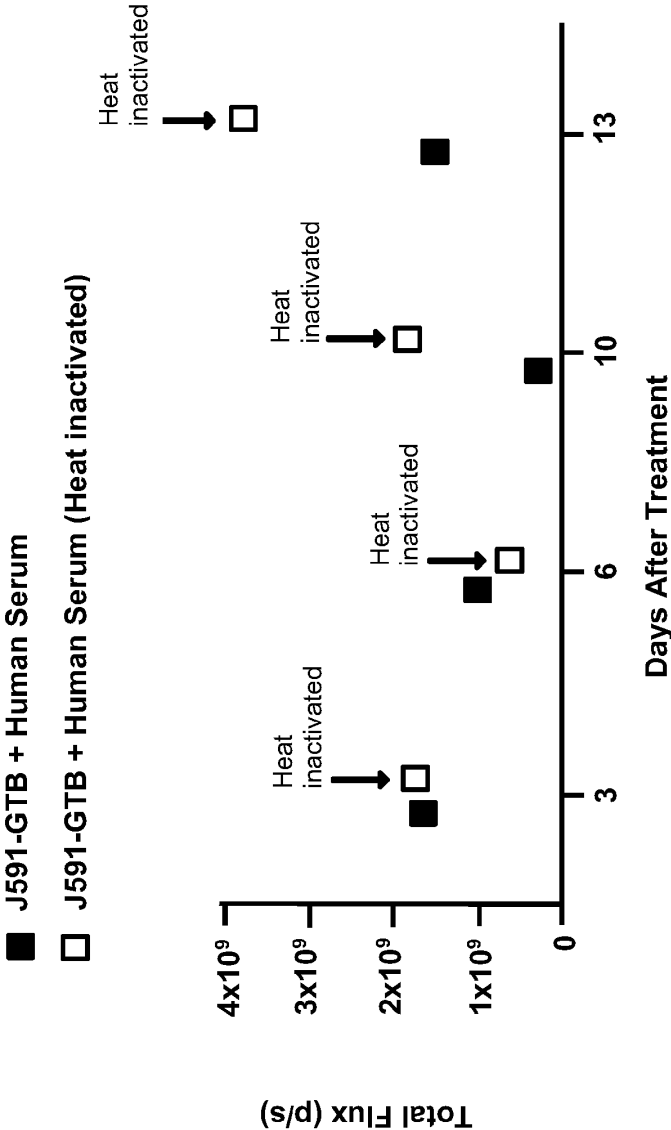


FIG. 14B

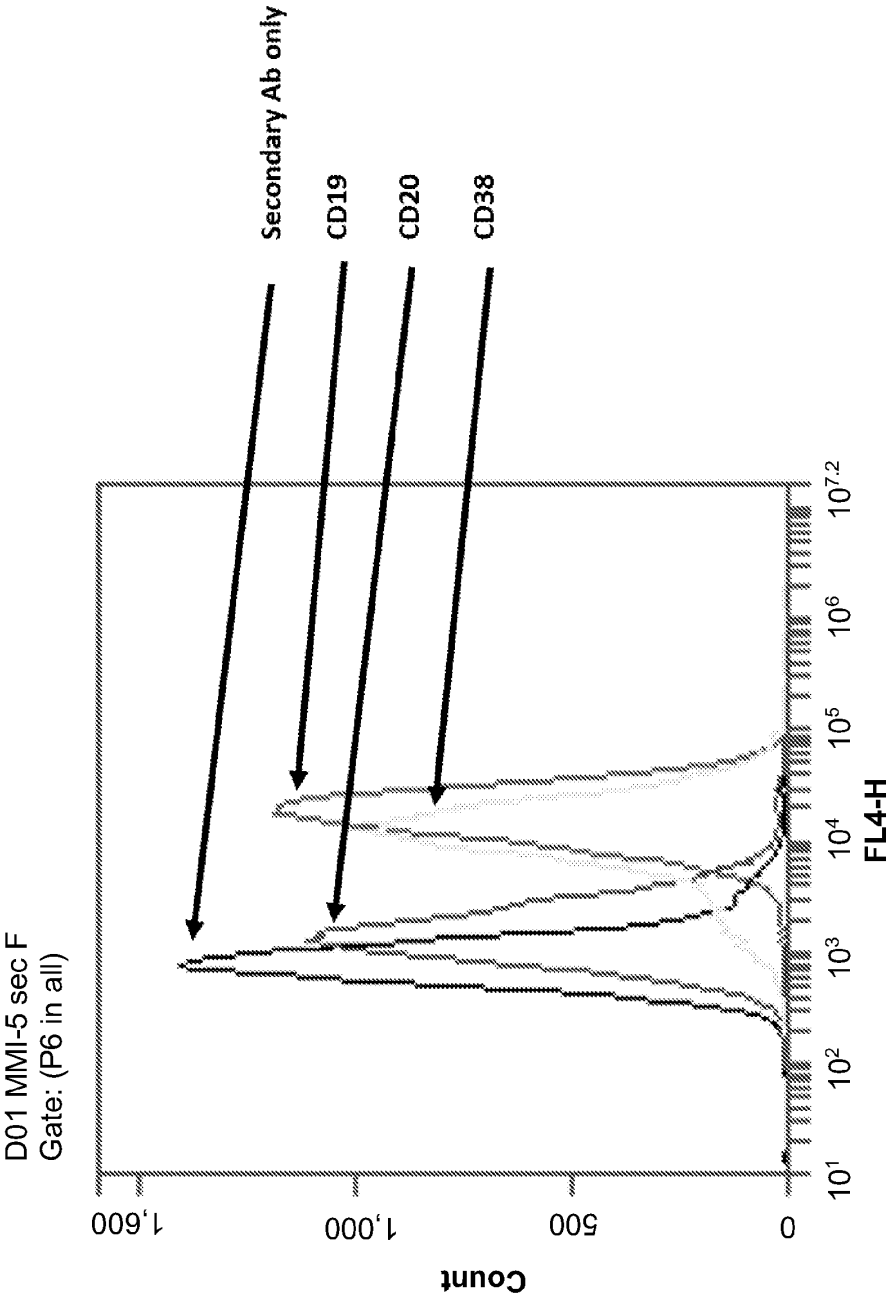


FIG. 15

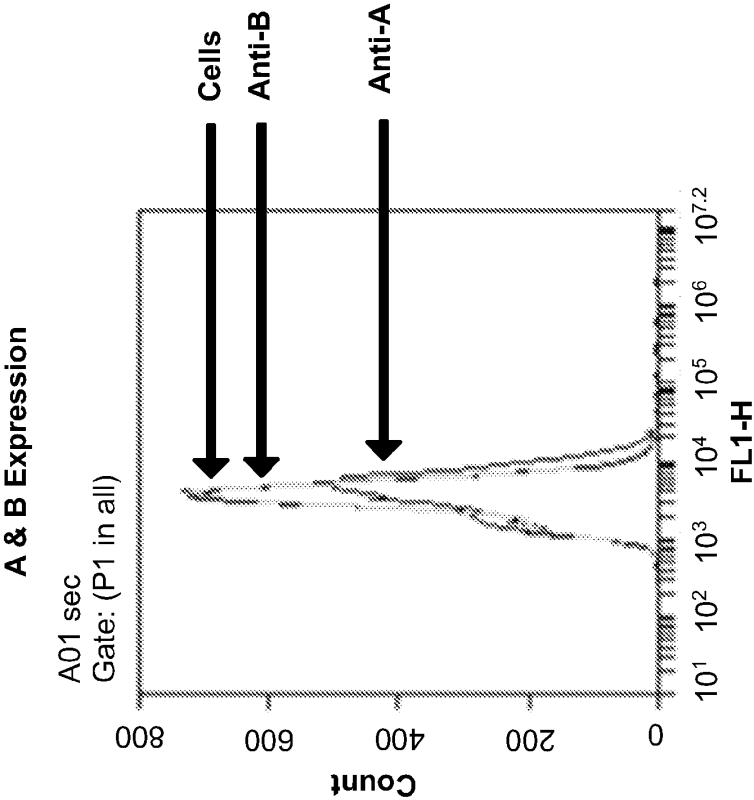


FIG. 16A

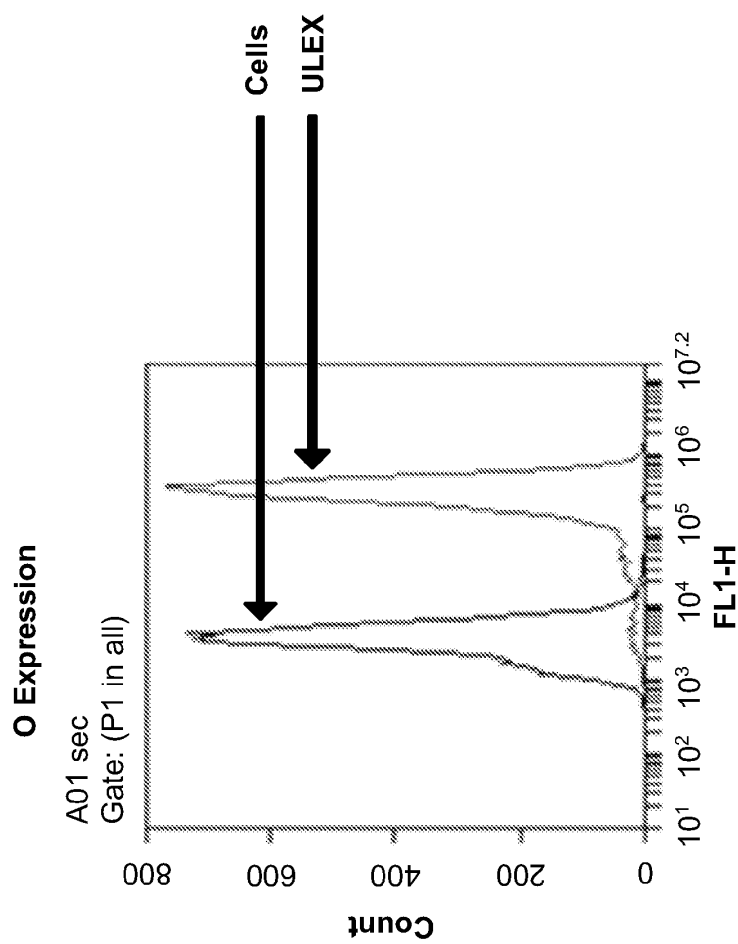


FIG. 16B

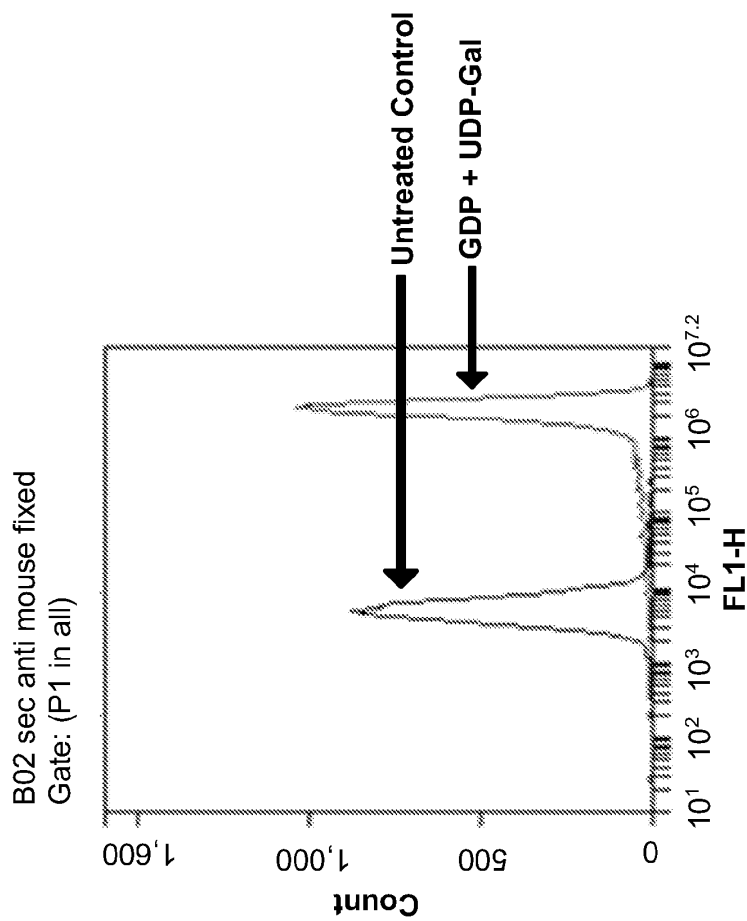
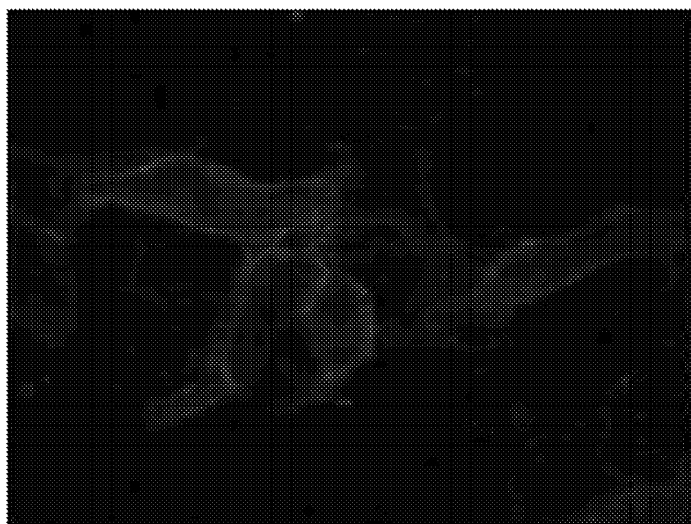


FIG. 17

GTB ONLY



ACUPA-PEG-1500-GTB

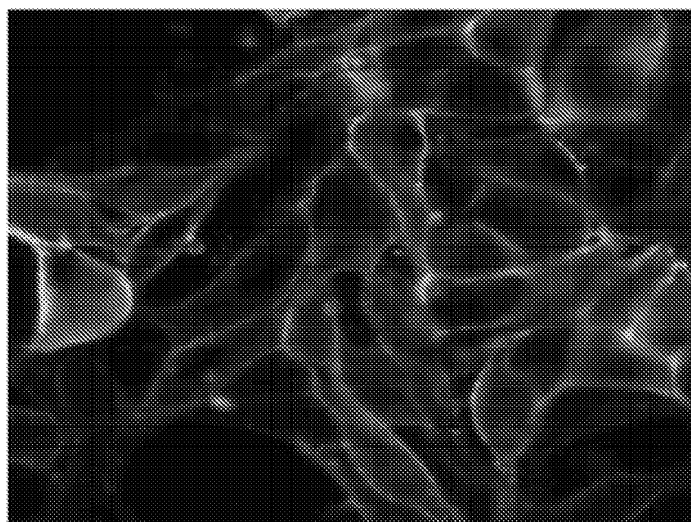


FIG. 18

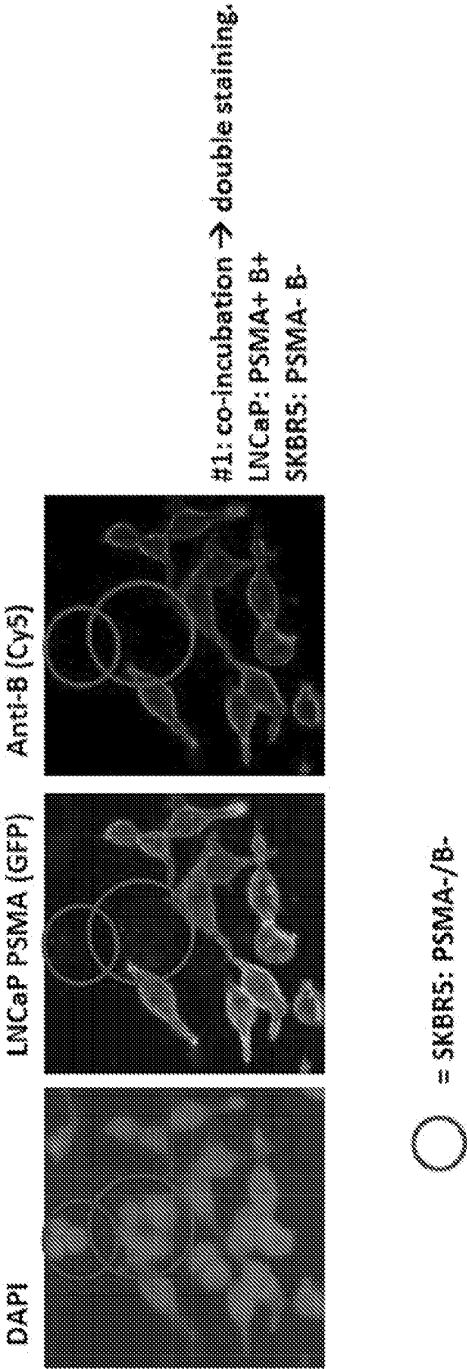
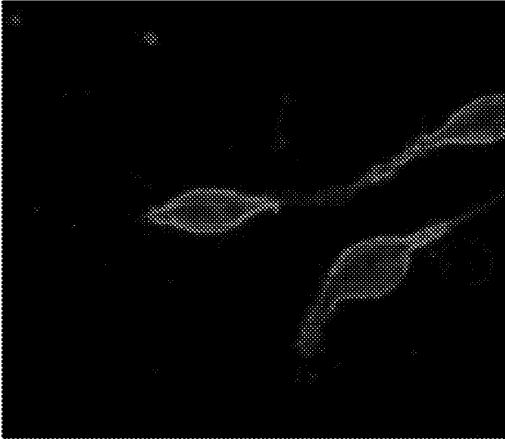
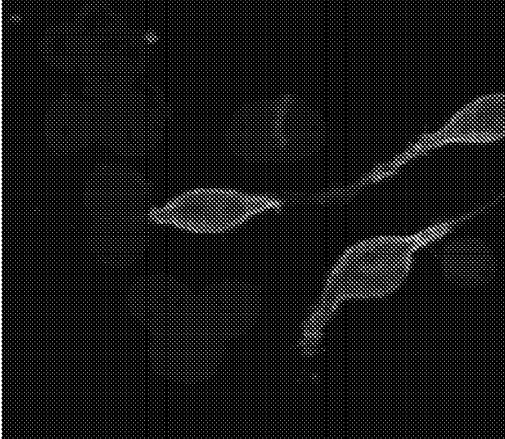


FIG. 19

B (Cy5)



PSMA (GFP)



DAPI

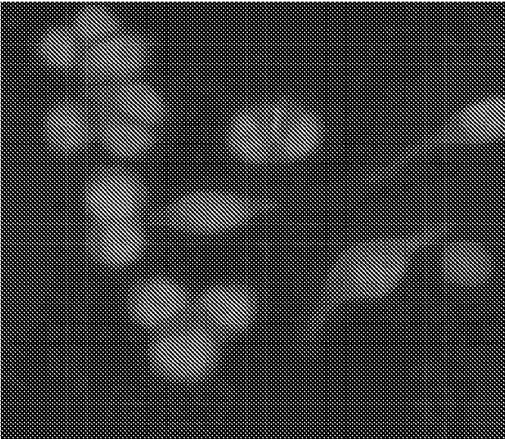


FIG. 20

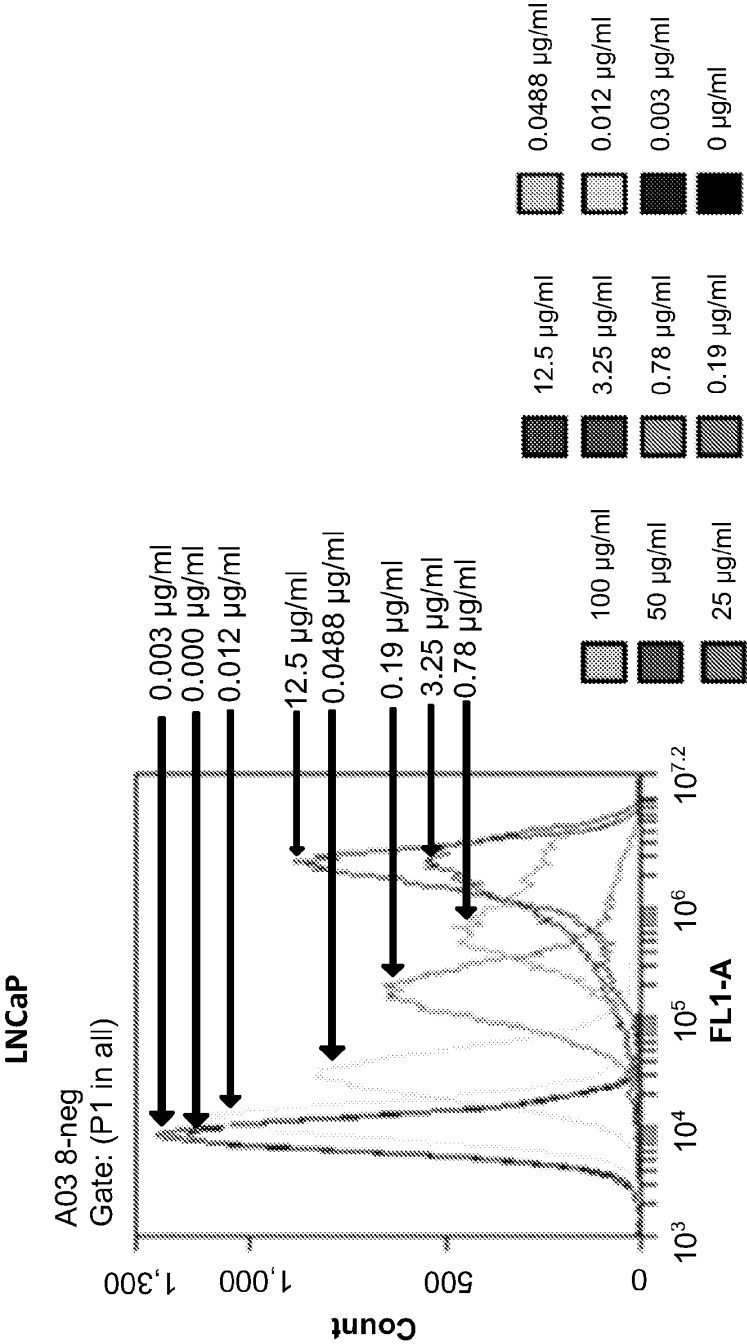


FIG. 21A

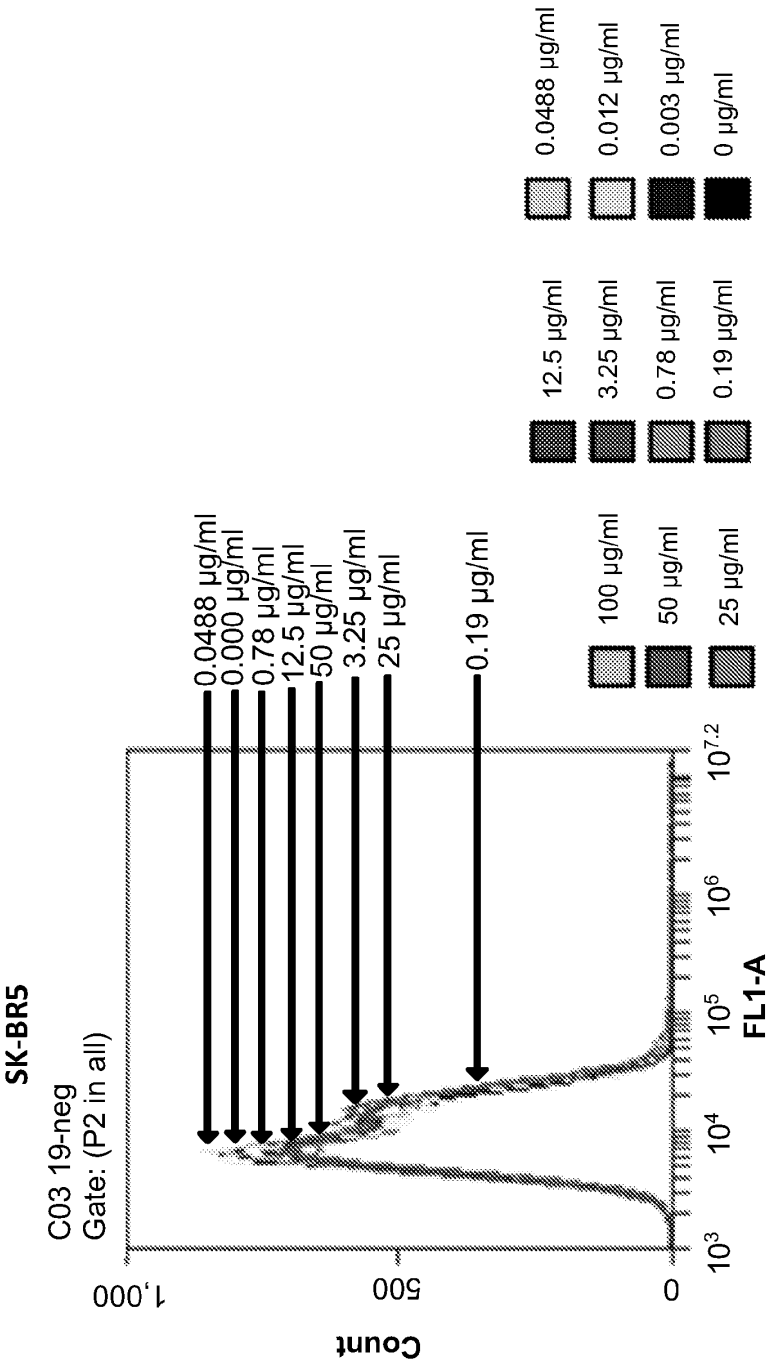


FIG. 21B

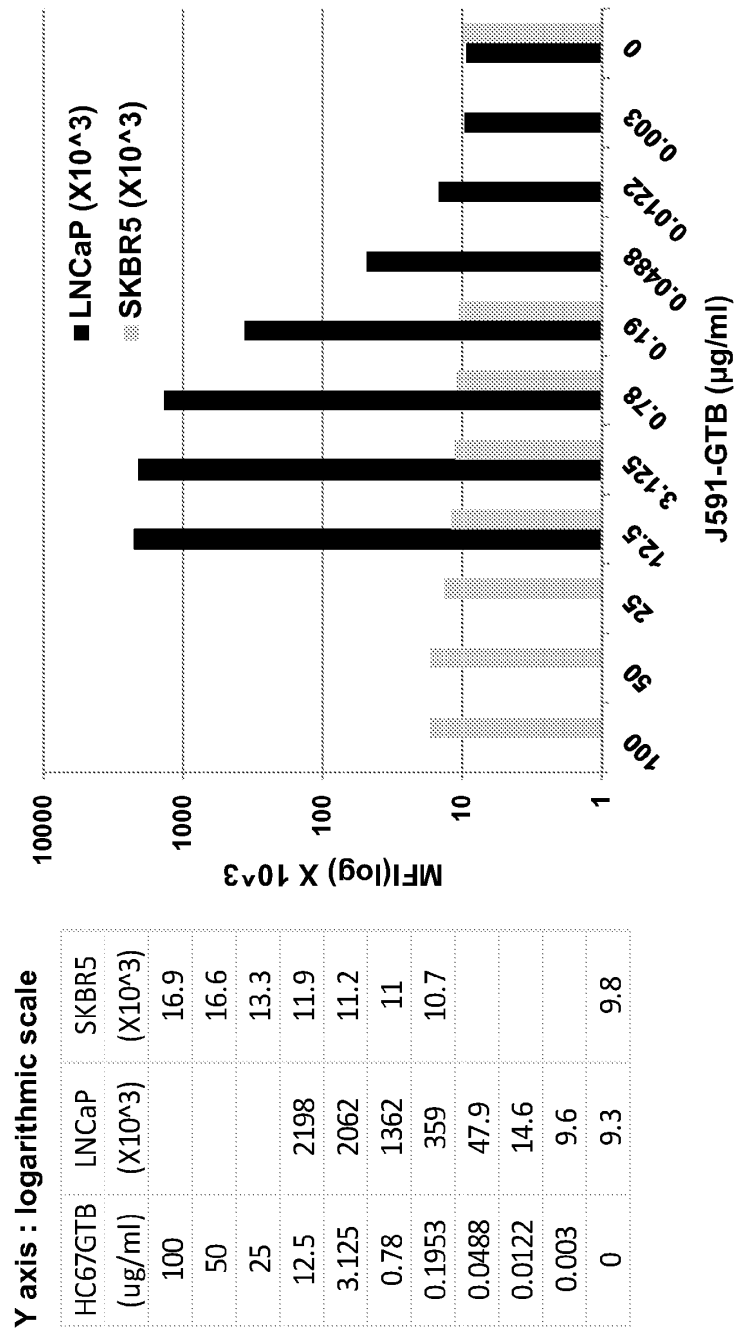
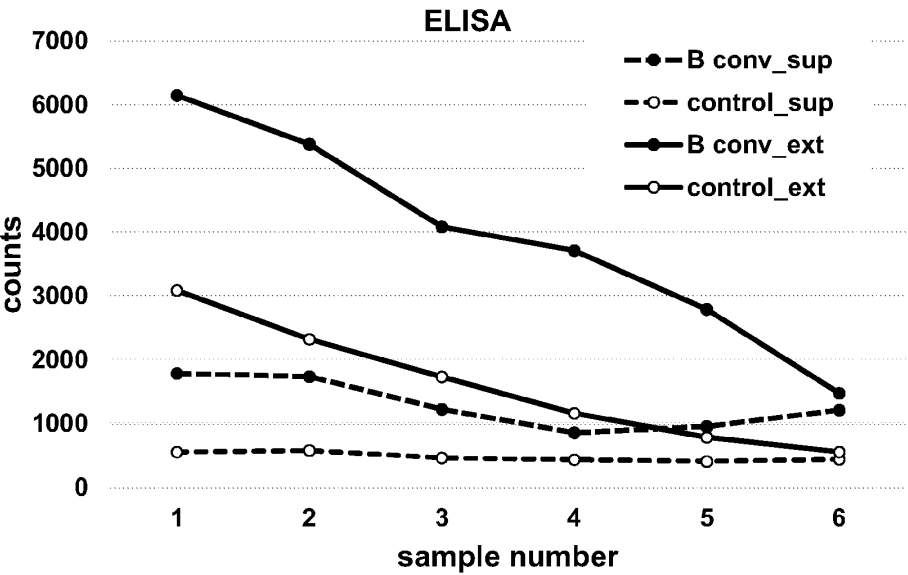
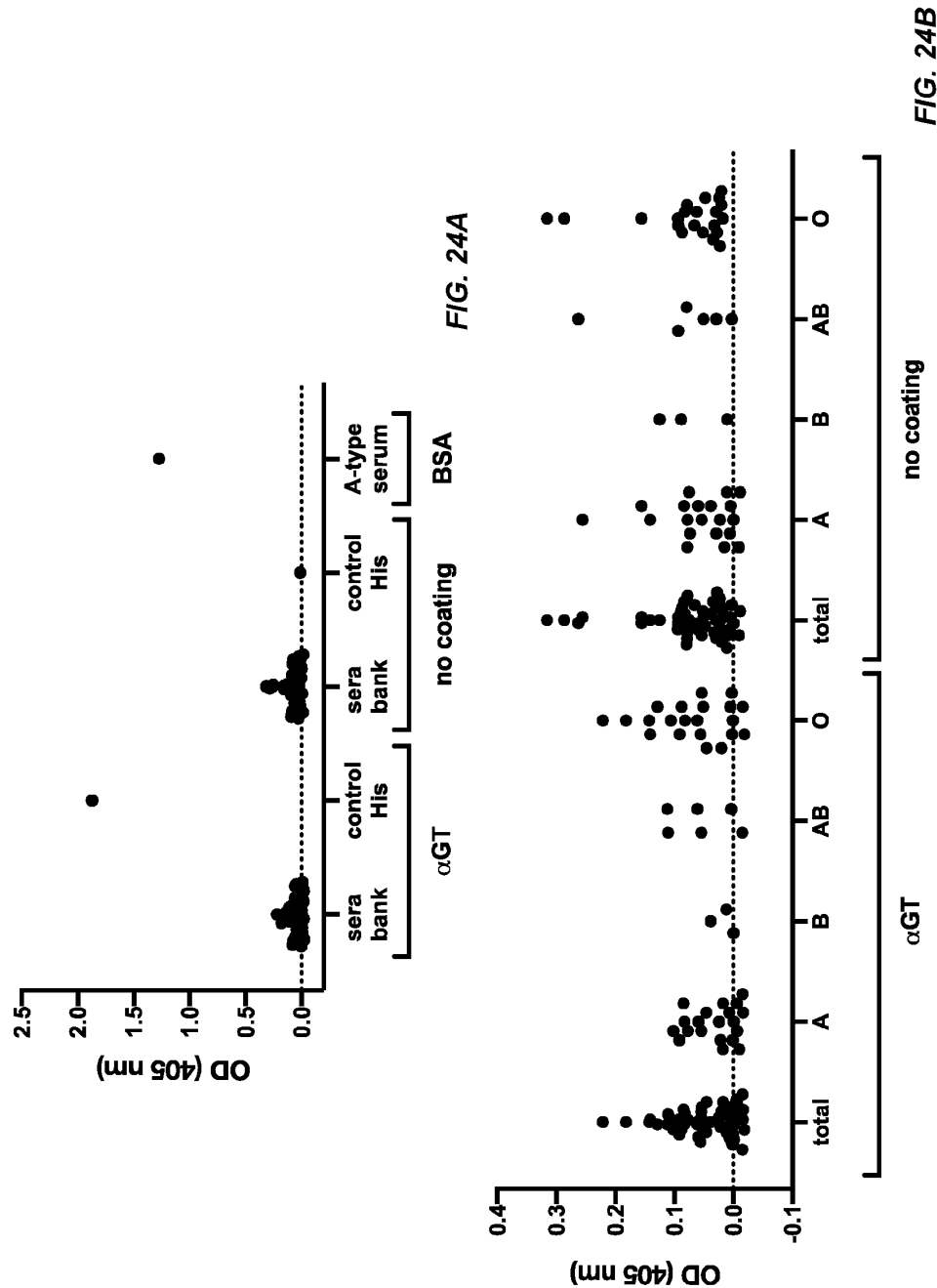


FIG. 22



Supernatant Dilution	1:2	1:4	1:8	1:16	1:32	1:64
B conversion_spent media	1786	1739	1227	857	955	1215
Control_spent media	556	580	464	437	409	441
Extracts dilution	1:4	1:8	1:16	1:32	1:64	1:128
B conv._cellular extract	6146	5380	4085	3714	2792	1475
Control_cellular extract	3089	2323	1734	1162	788	557

FIG. 23



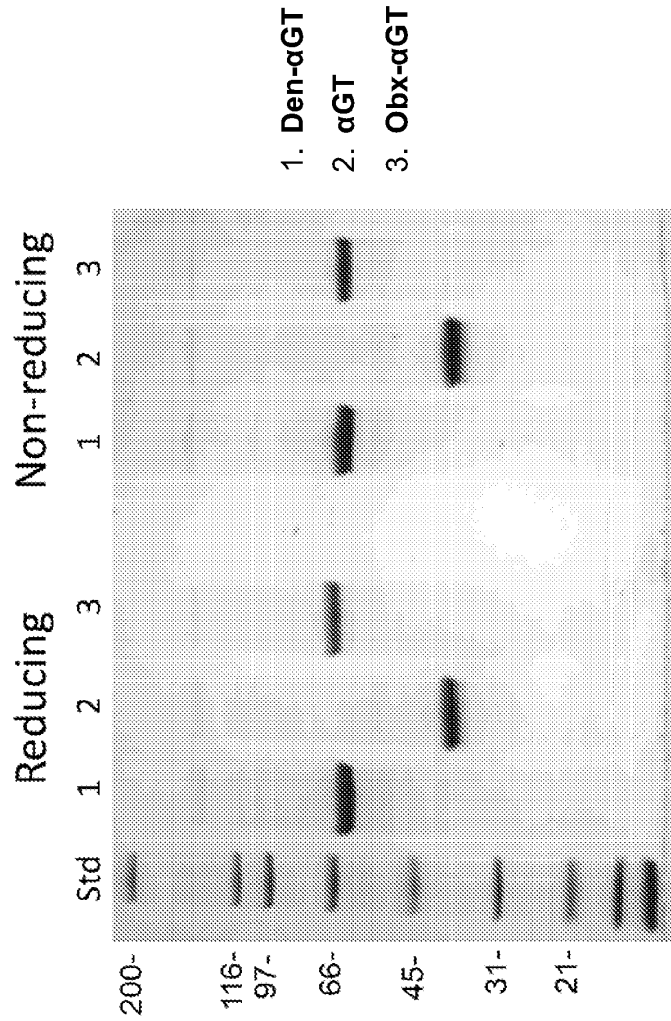
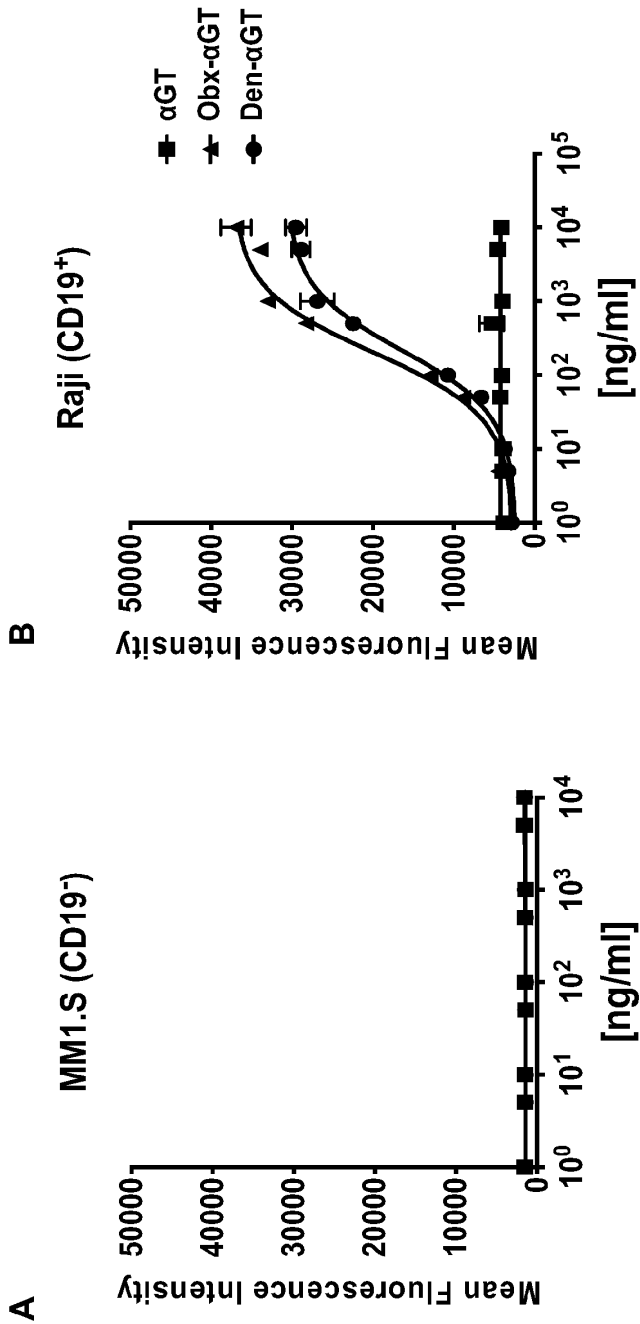


FIG. 25



FIGs. 26A-26B

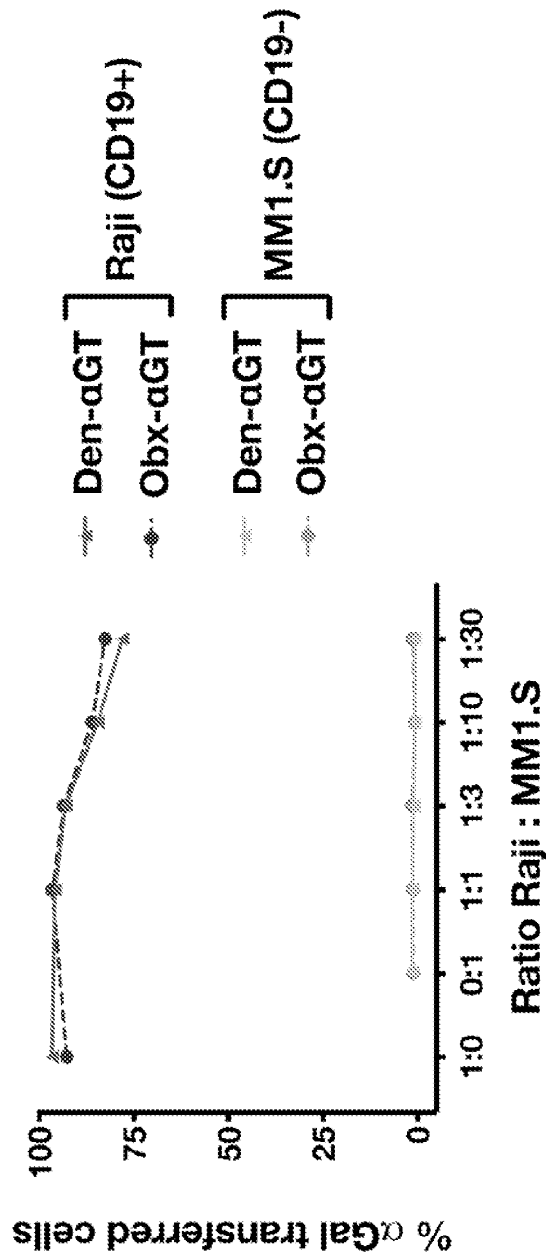
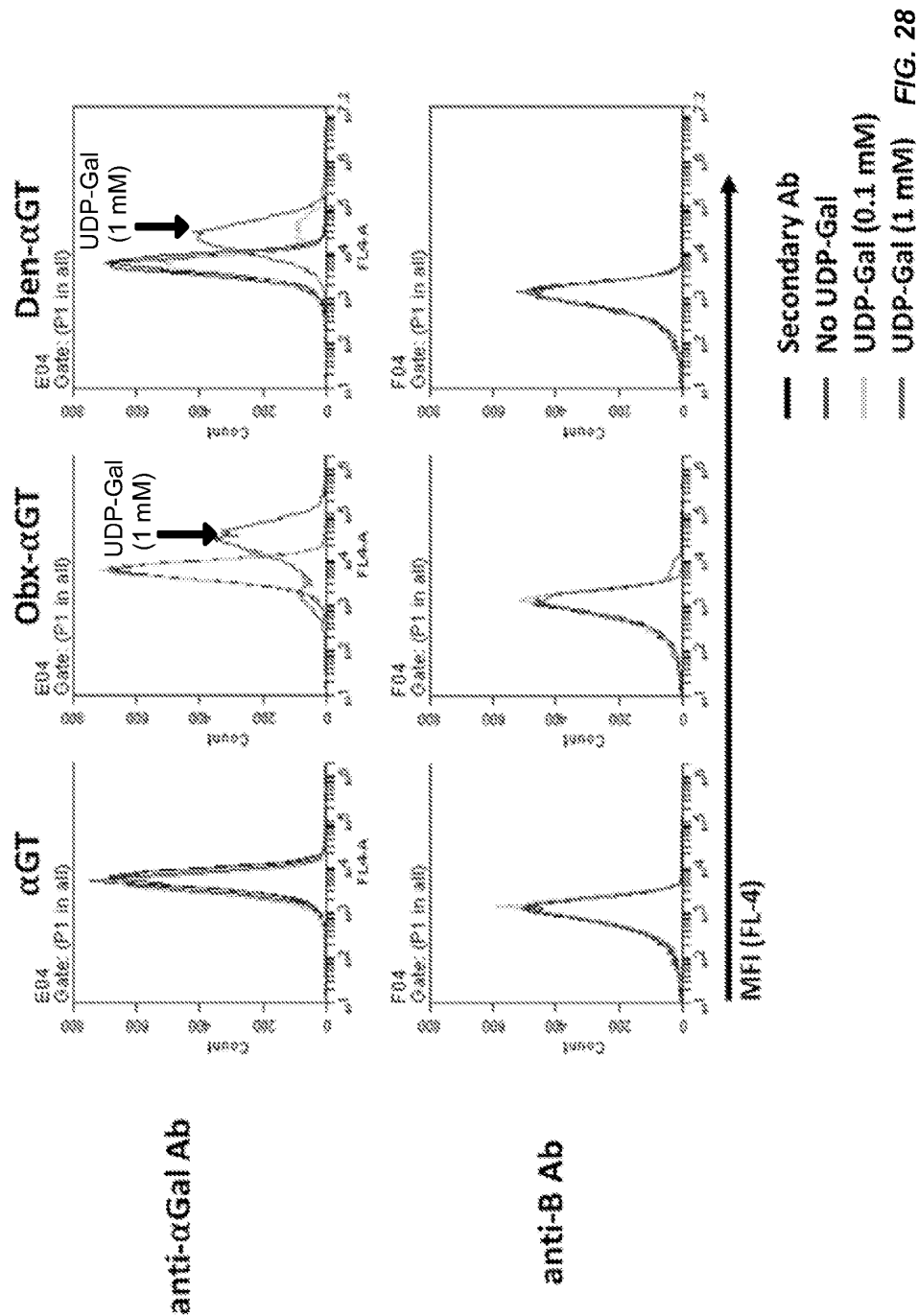


FIG. 27



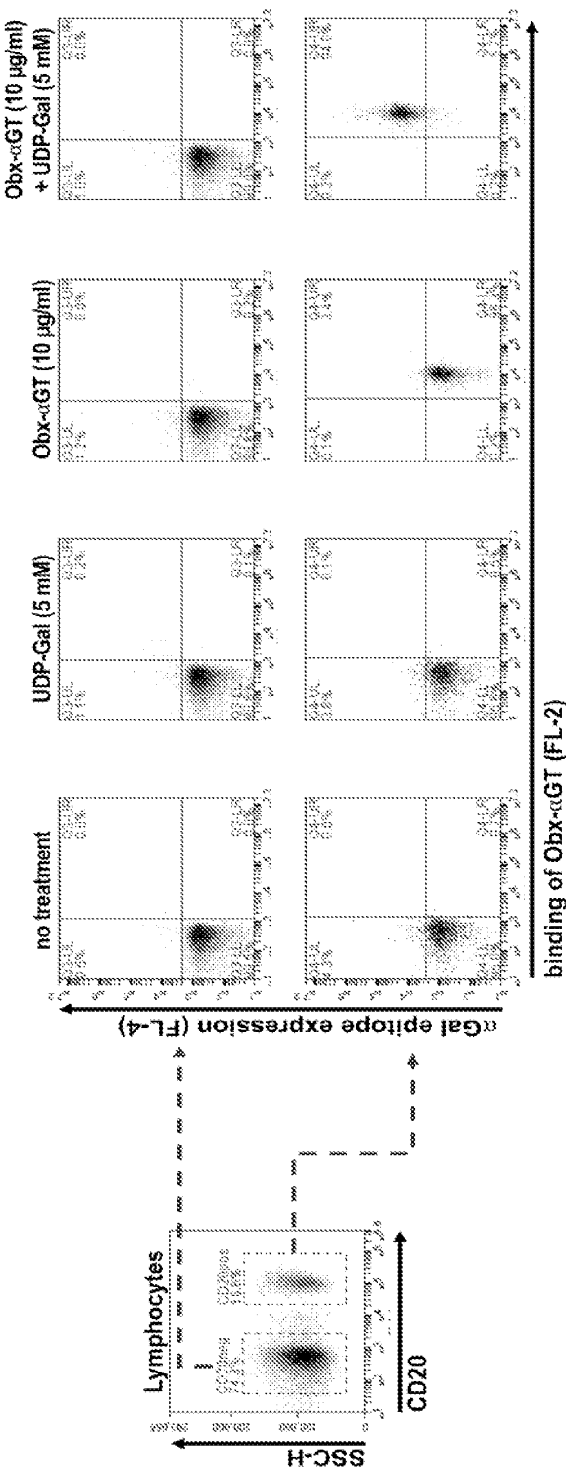


FIG. 29

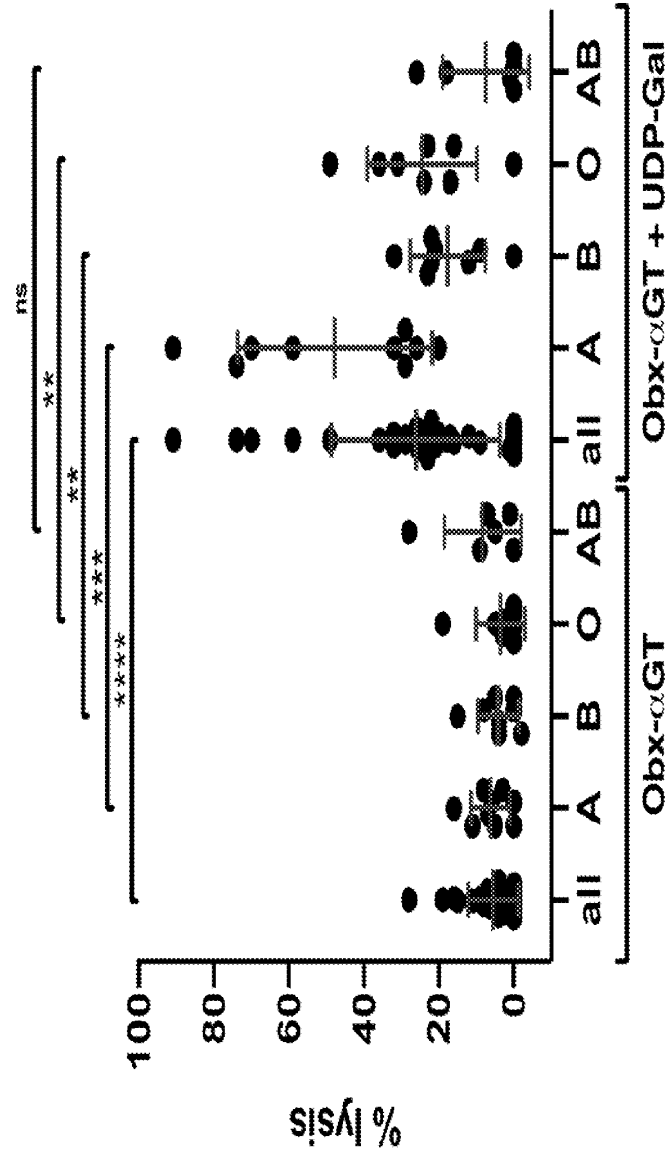
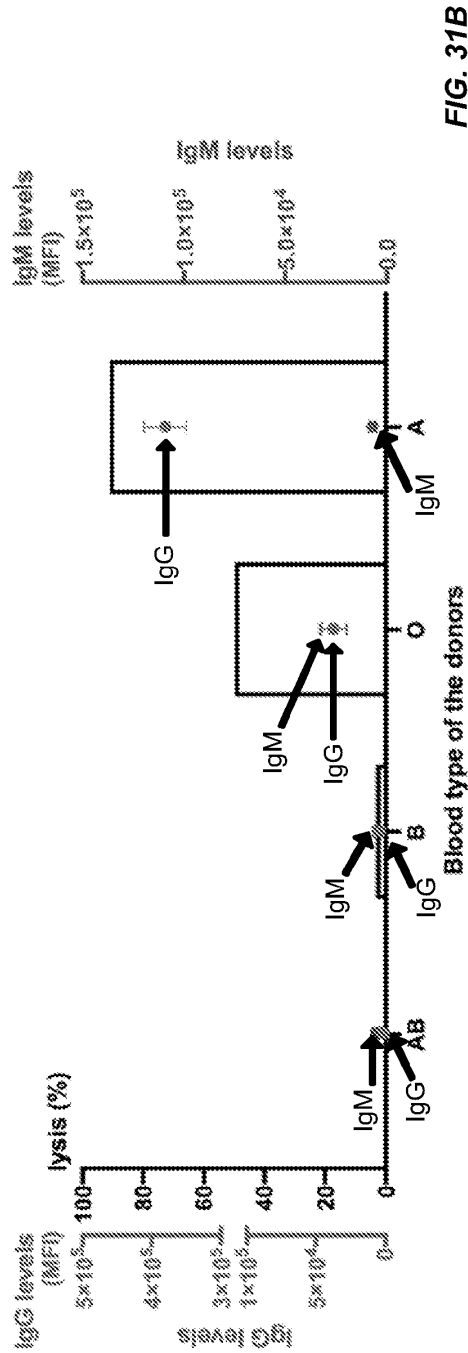
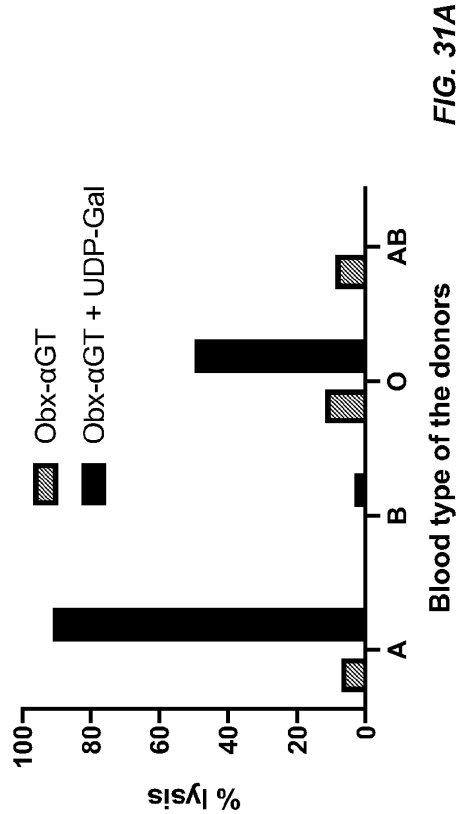


FIG. 30



		UDP-Gal (mM)				
		0	1	5	10	20
Obx-αGT (μg/ml)	0	1	2.412	1.118	1.076	1.558
	10	24.63	24.9	24.08	26.37	27.34
	25	26.72	26.36	24.93	25.04	27.99
	50	30.51	31.33	27.03	27.02	26.67
	100	29.47	28.52	28.54	28.26	27.43

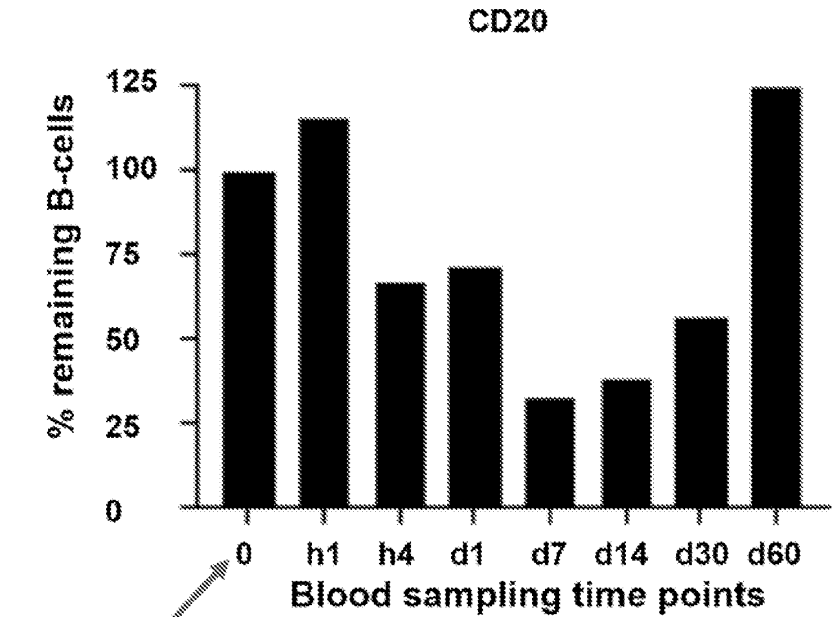
FIG. 32A

		UDP-Gal (mM)				
		0	1	5	10	20
Obx-αGT (μg/ml)	0	1	0.9	1.028	2.224	6.006
	10	0.7	1.875	11.77	21.44	16.36
	25	1.402	2.383	13.02	21.46	20.94
	50	1.14	1.6	12.35	22.72	26.24
	100	1.459	4.451	19.07	32.05	28.85

FIG. 32B

		UDP-Gal (mM)				
		0	1	5	10	20
Obx-αGT (μg/ml)	0	100%	99%	89%	81%	41%
	10	73%	37%	5%	5%	4%
	25	77%	27%	8%	16%	18%
	50	91%	57%	45%	41%	23%
	100	99%	60%	68%	50%	34%

FIG. 32C



Time 0 Baseline count = 100%

FIG. 33