

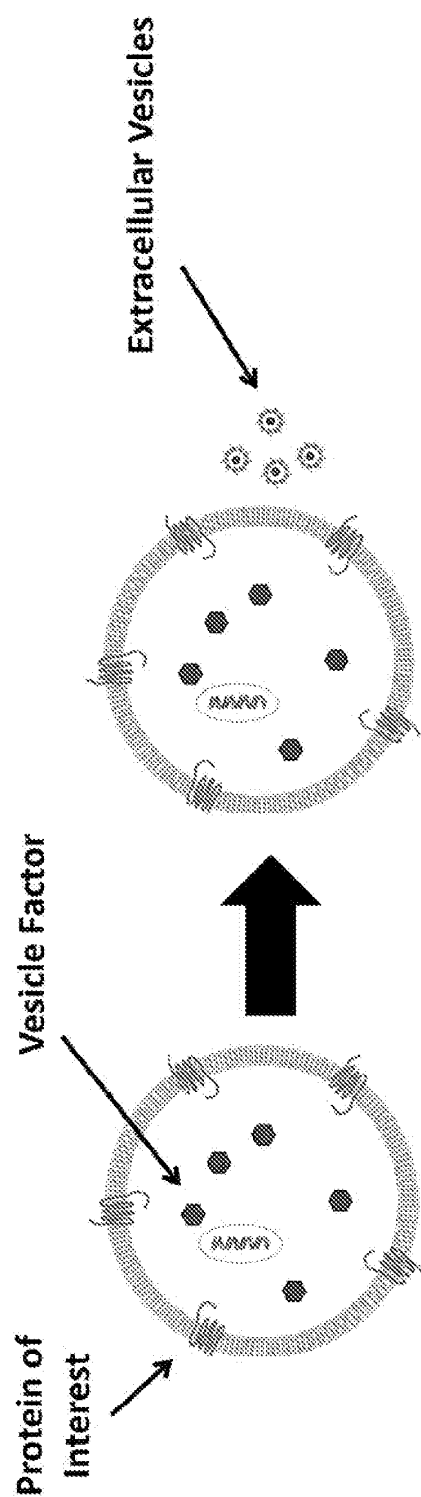


FIG. 1

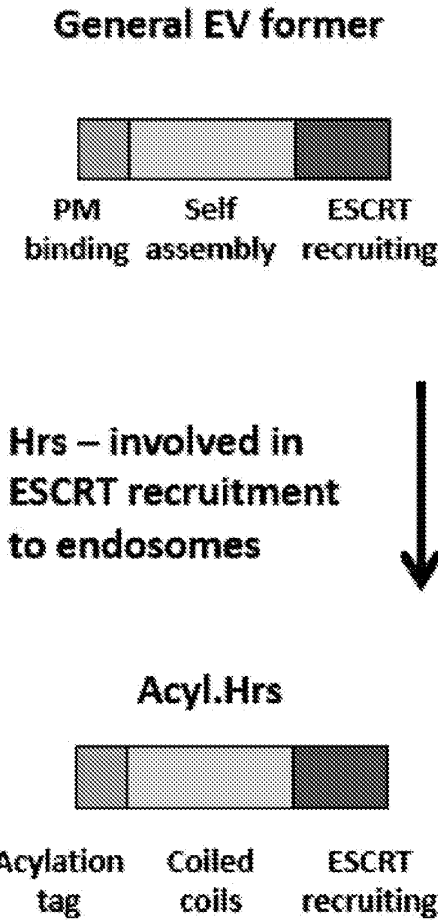


FIG. 2A

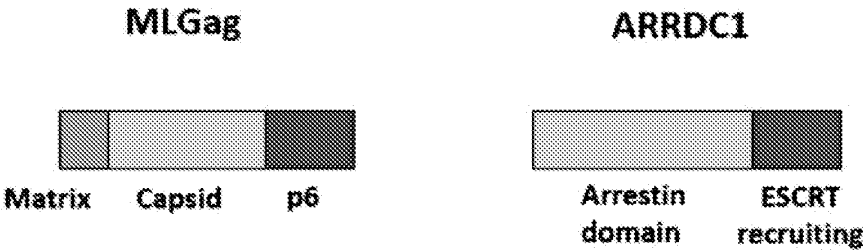


FIG. 2B

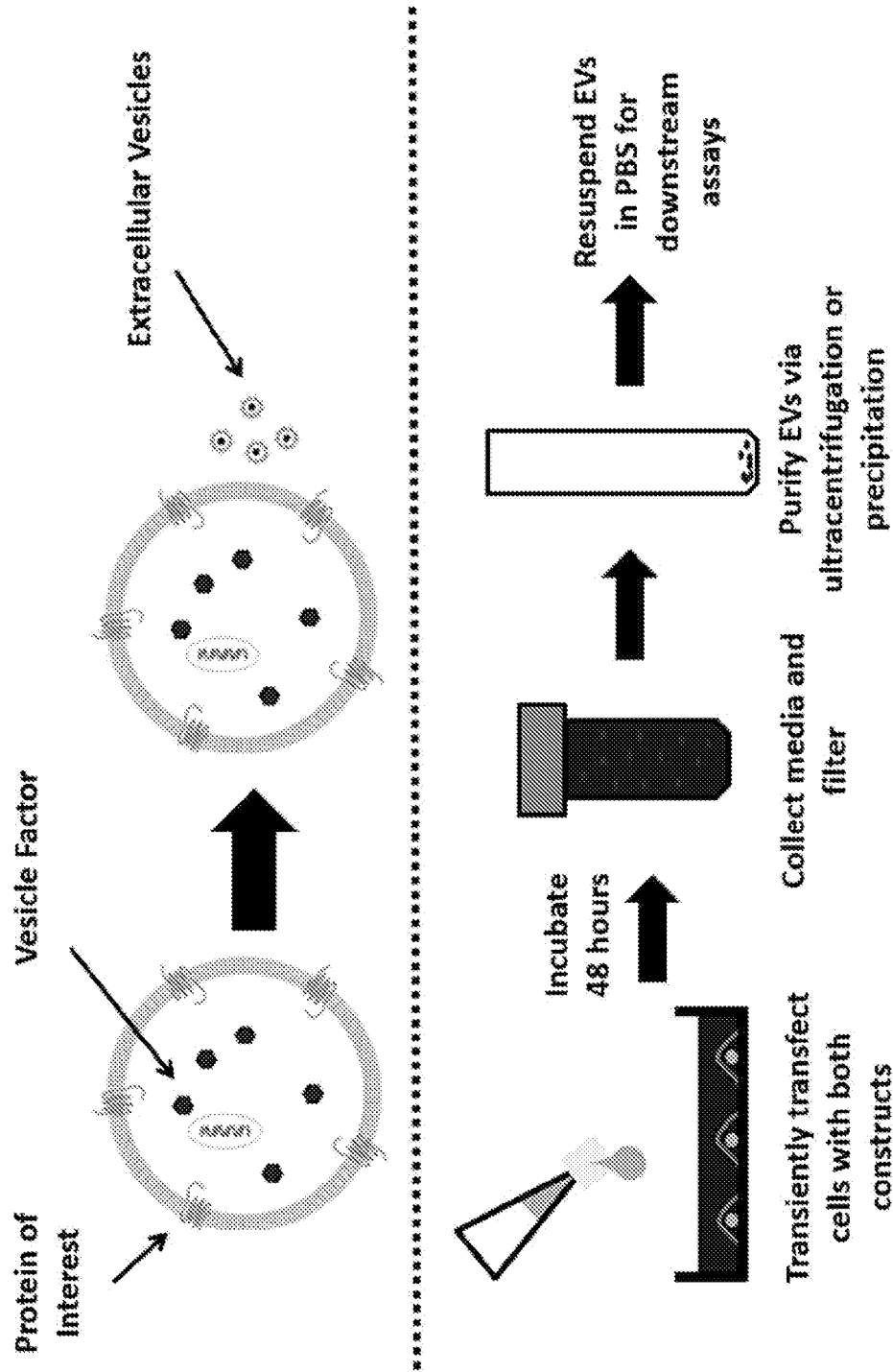


FIG. 3

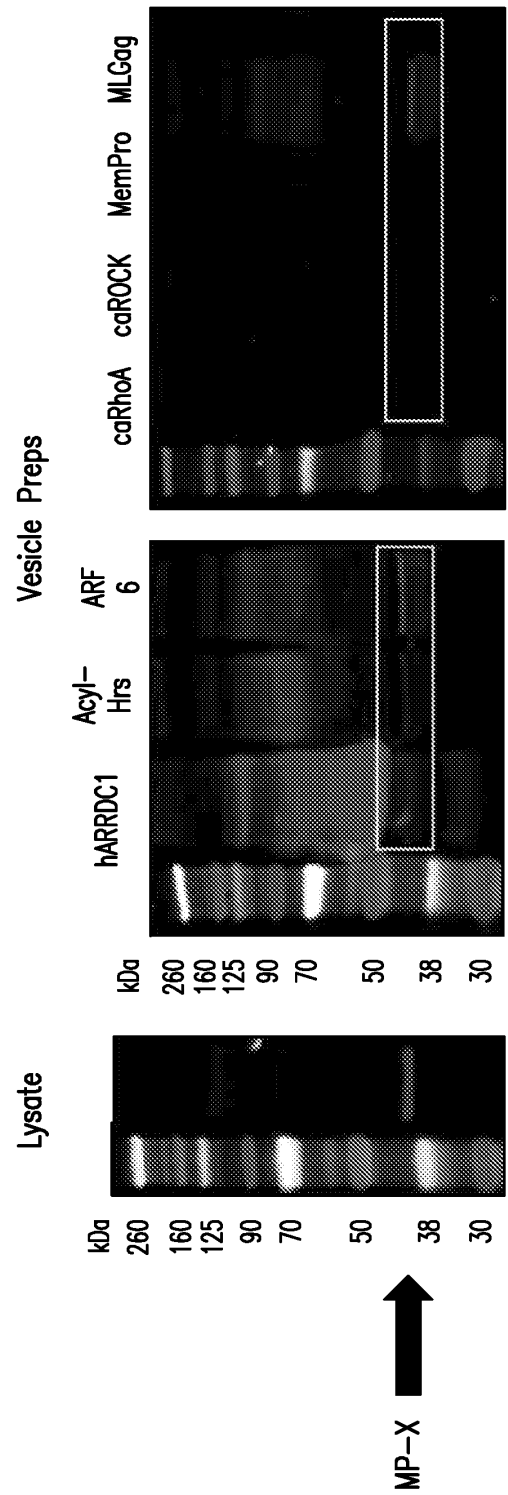


FIG. 4

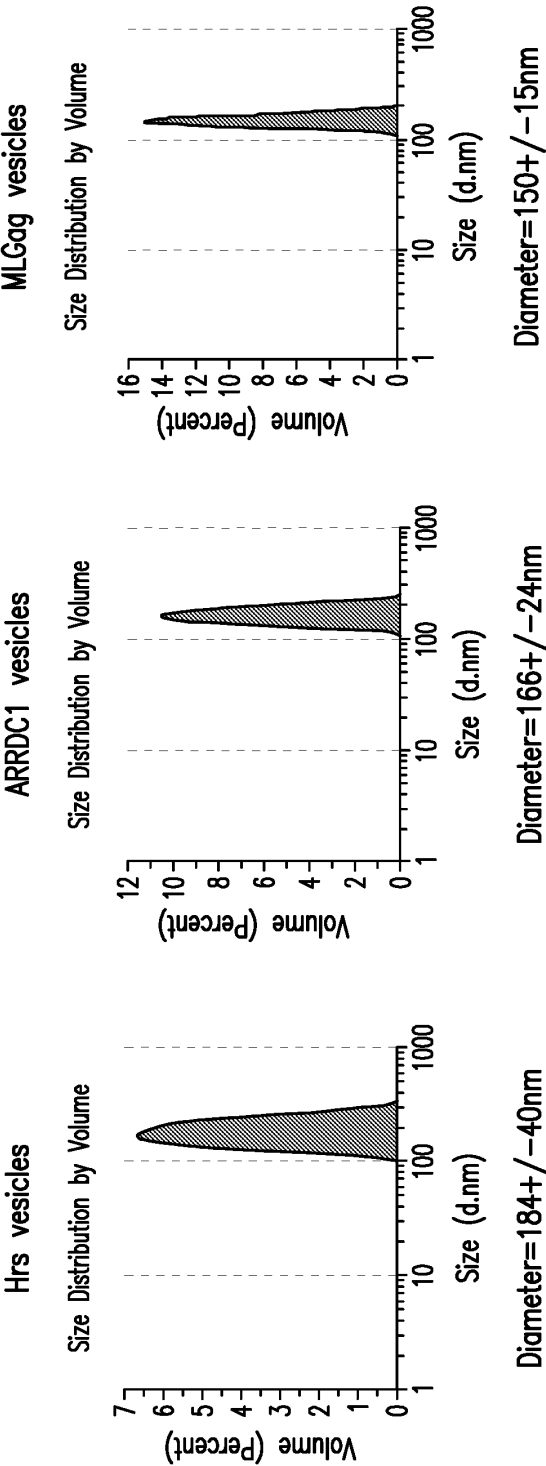


FIG. 5

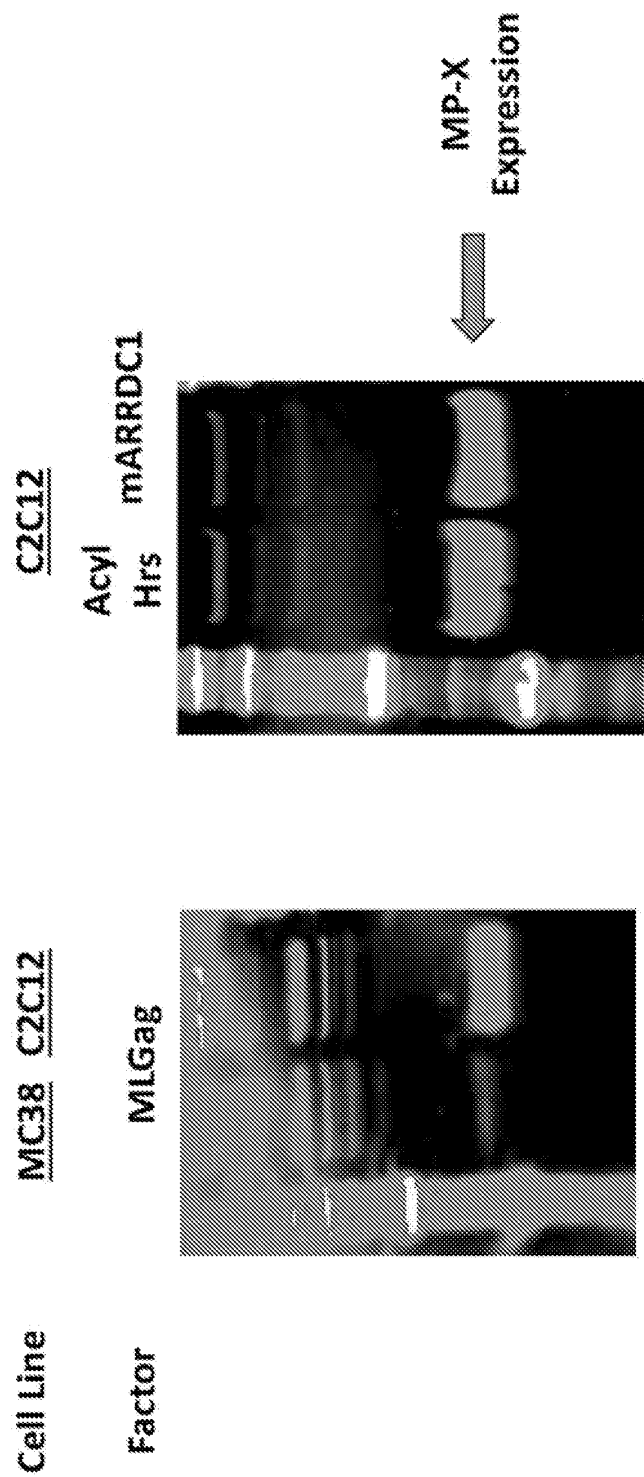


FIG. 6

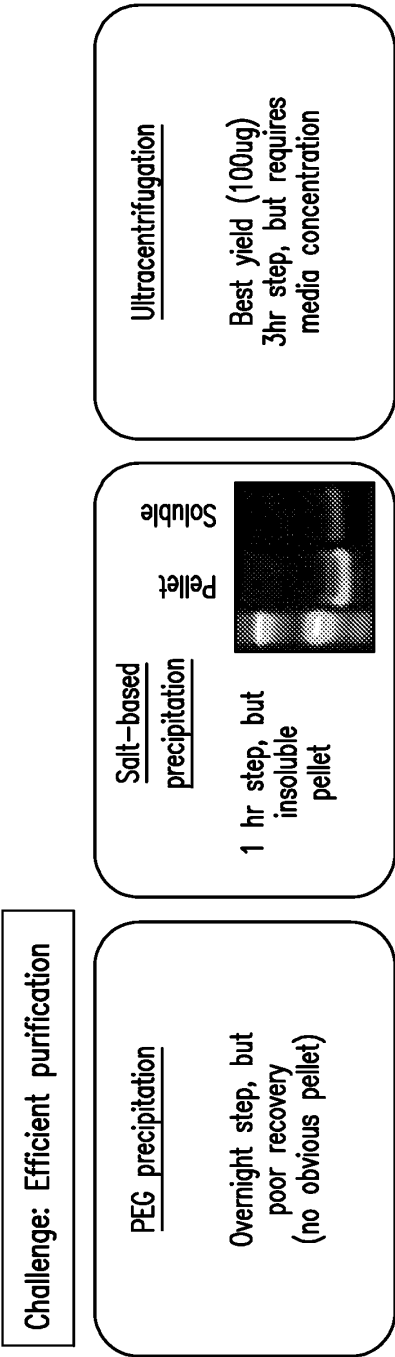


FIG. 7A

Challenge: Obtaining sufficient yield

Cell line	HEK293	HEK293	293S	Expi293
Format	10x 15cm dish (250mL)	Integra flask (150mL)	Flask (500mL)	Flask (150mL)
Yield	~100 ug	~10 ug	1.2 mg	1.2 mg

FIG. 7B

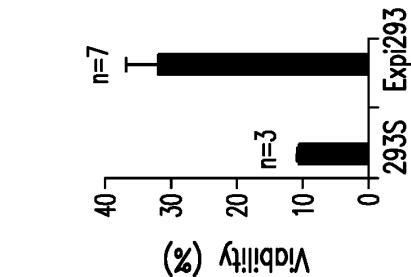


FIG. 8C

Target	293S (5x100ml)	Expi293 (5x 30 ml)
MP-7	1.21	1.18
MP-7	0.71	1.25
MP-8	1.37	0.76
MP-8	1.03	
MP-4	0.9	1.78

FIG. 8B

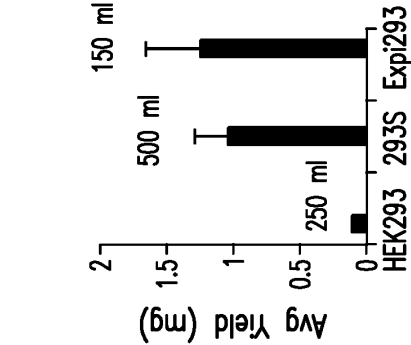


FIG. 8A

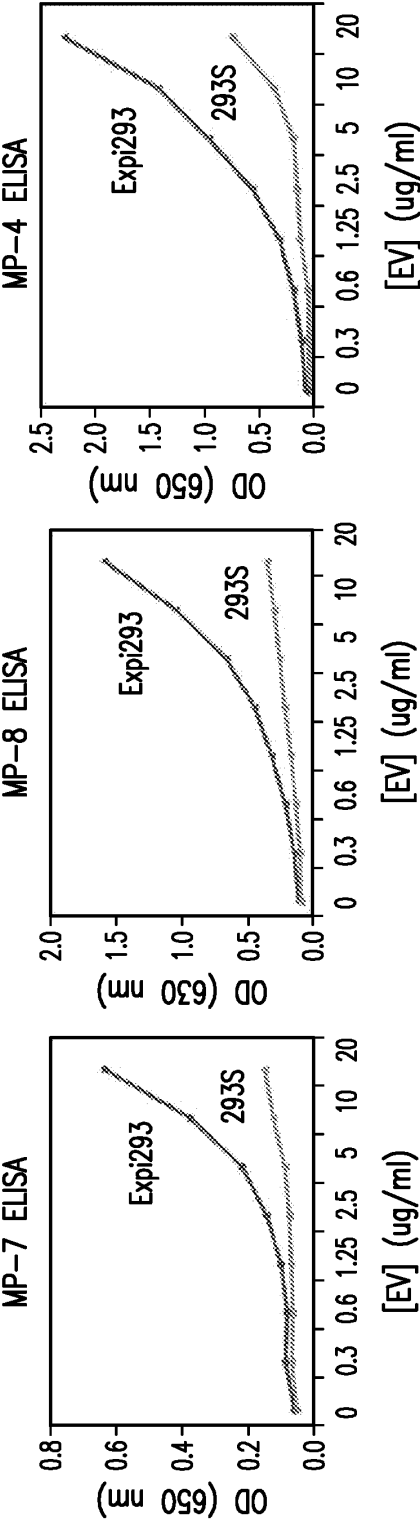


FIG. 9C

FIG. 9B

FIG. 9A

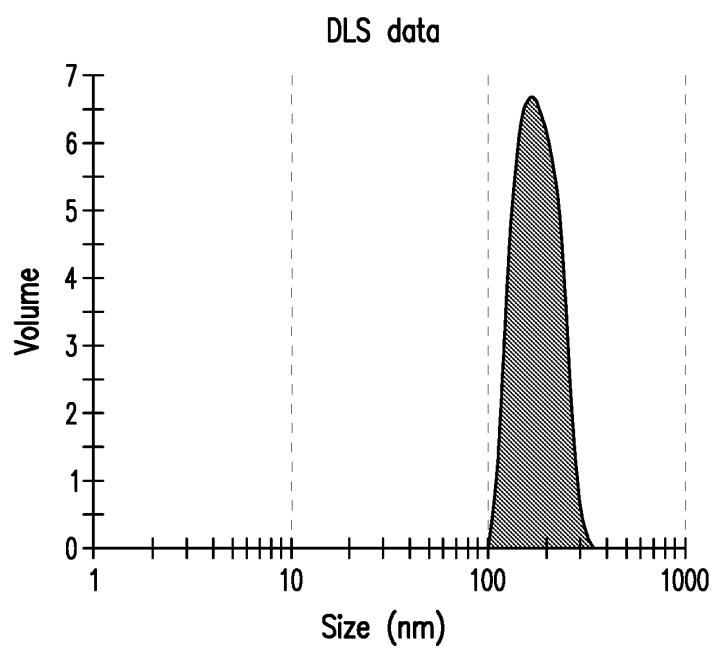


FIG. 10A

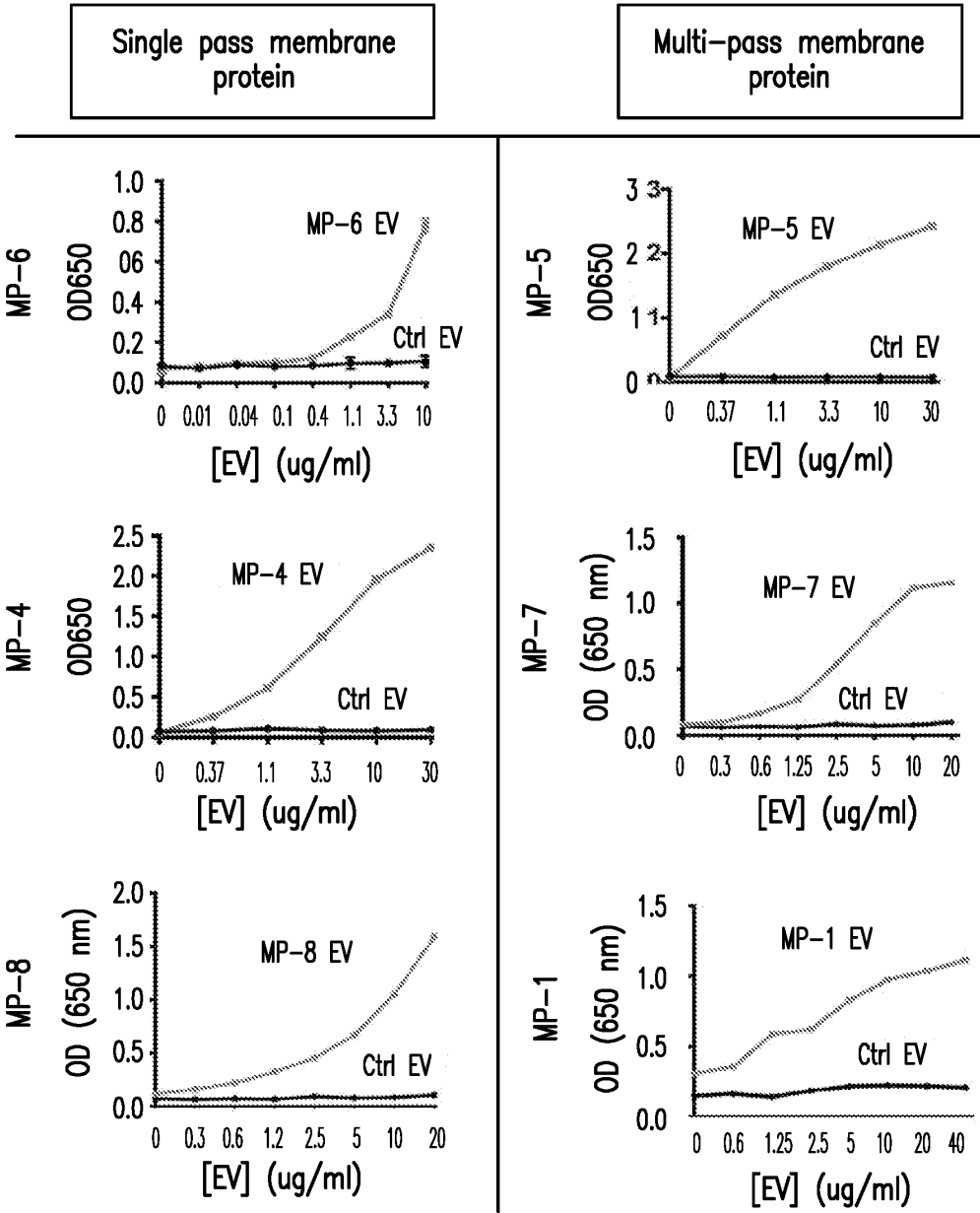


FIG. 10B

FIG. 10C

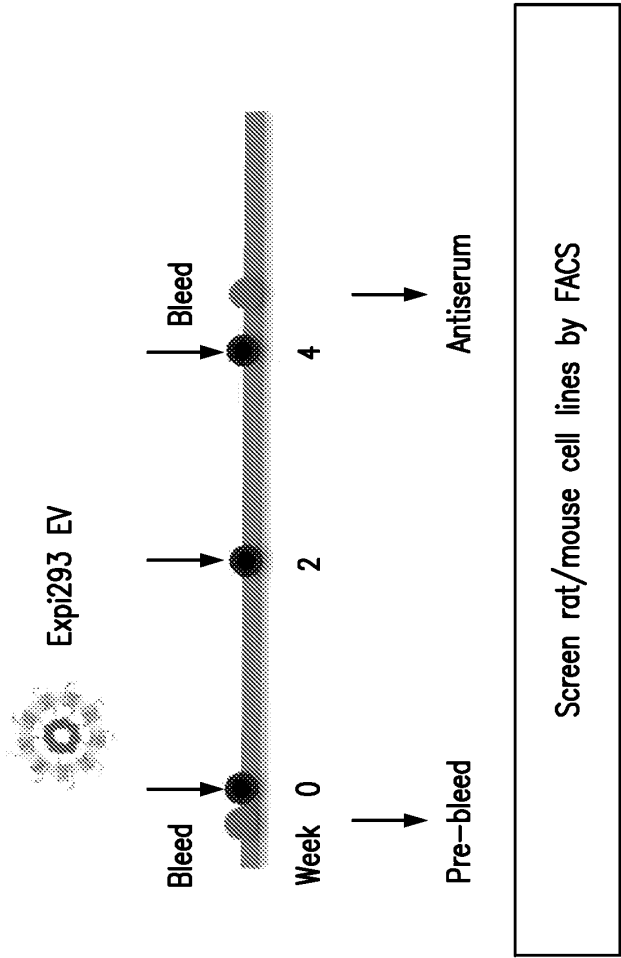


FIG. 11A

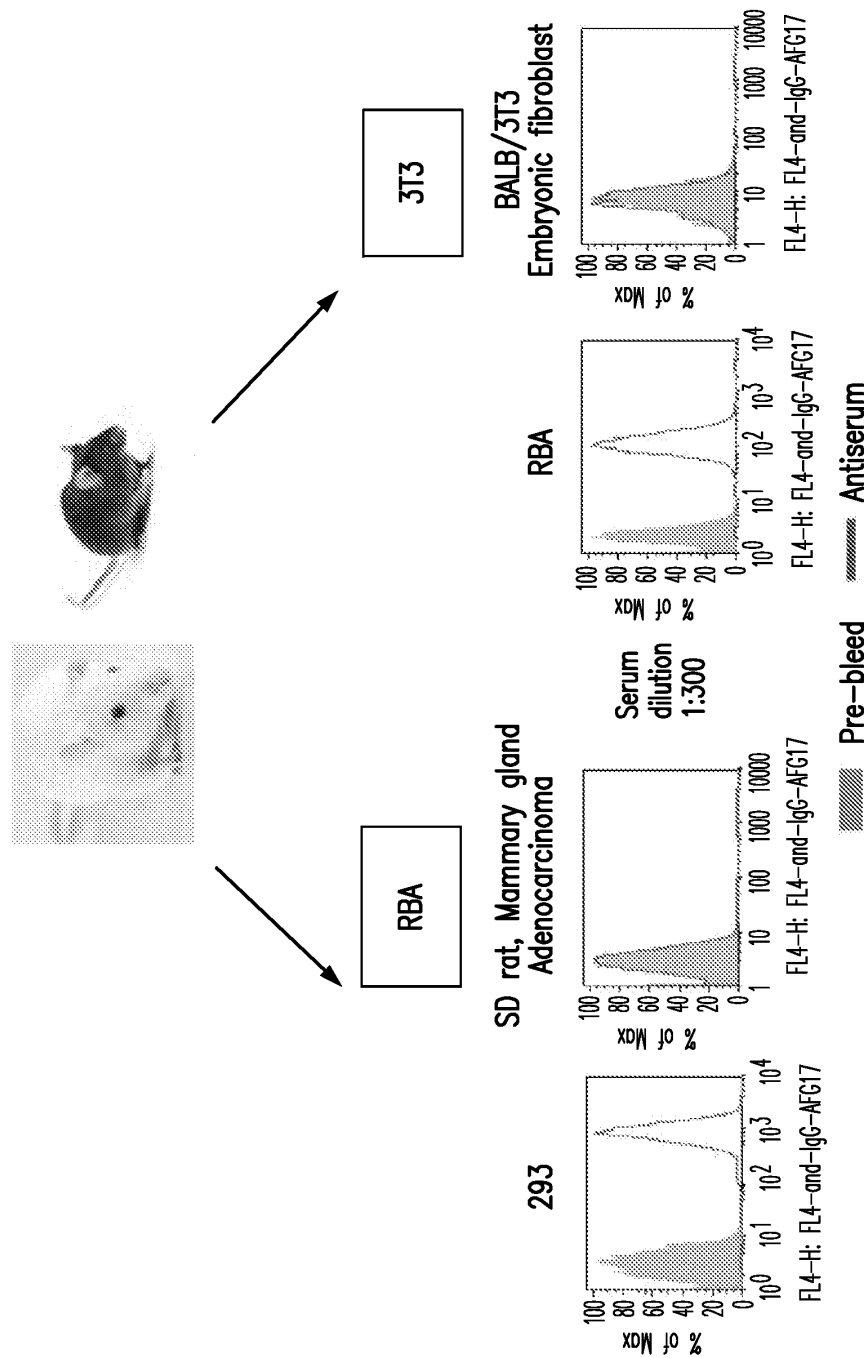


FIG. 11B

Lipofectamine 3000 : DNA =3:1

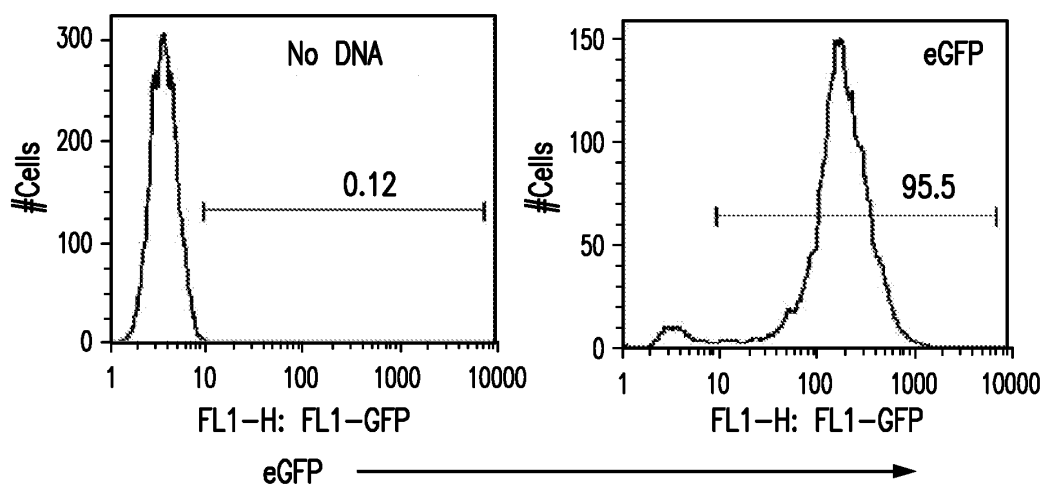


FIG. 11C

TransIT X2 : DNA=4:1

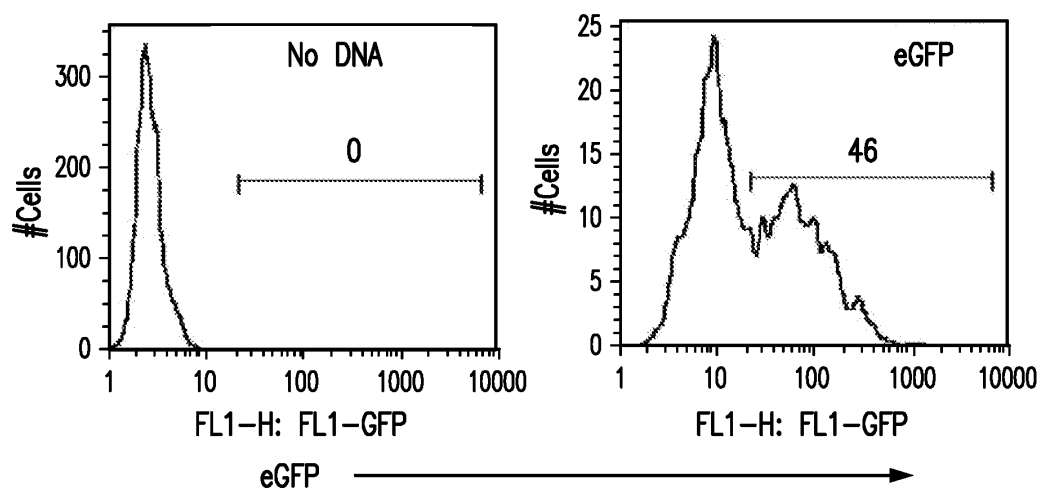


FIG. 11D

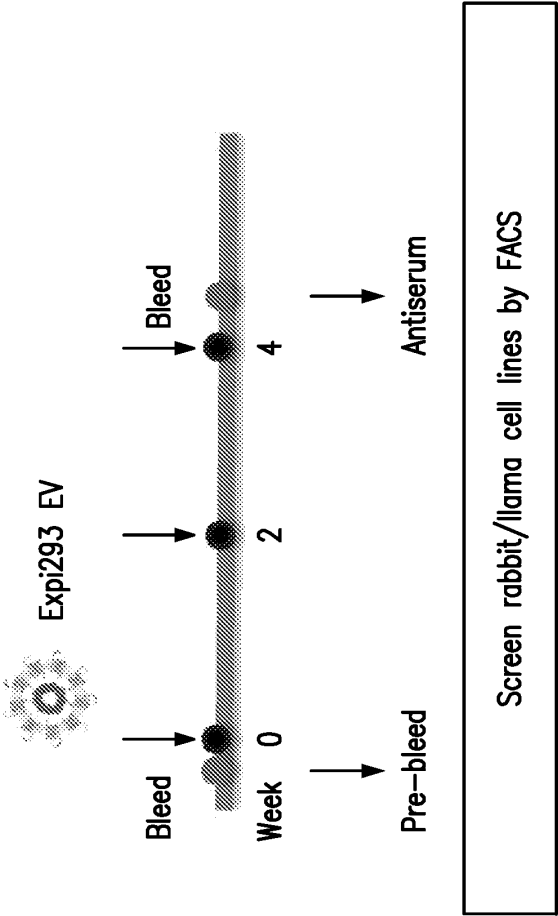
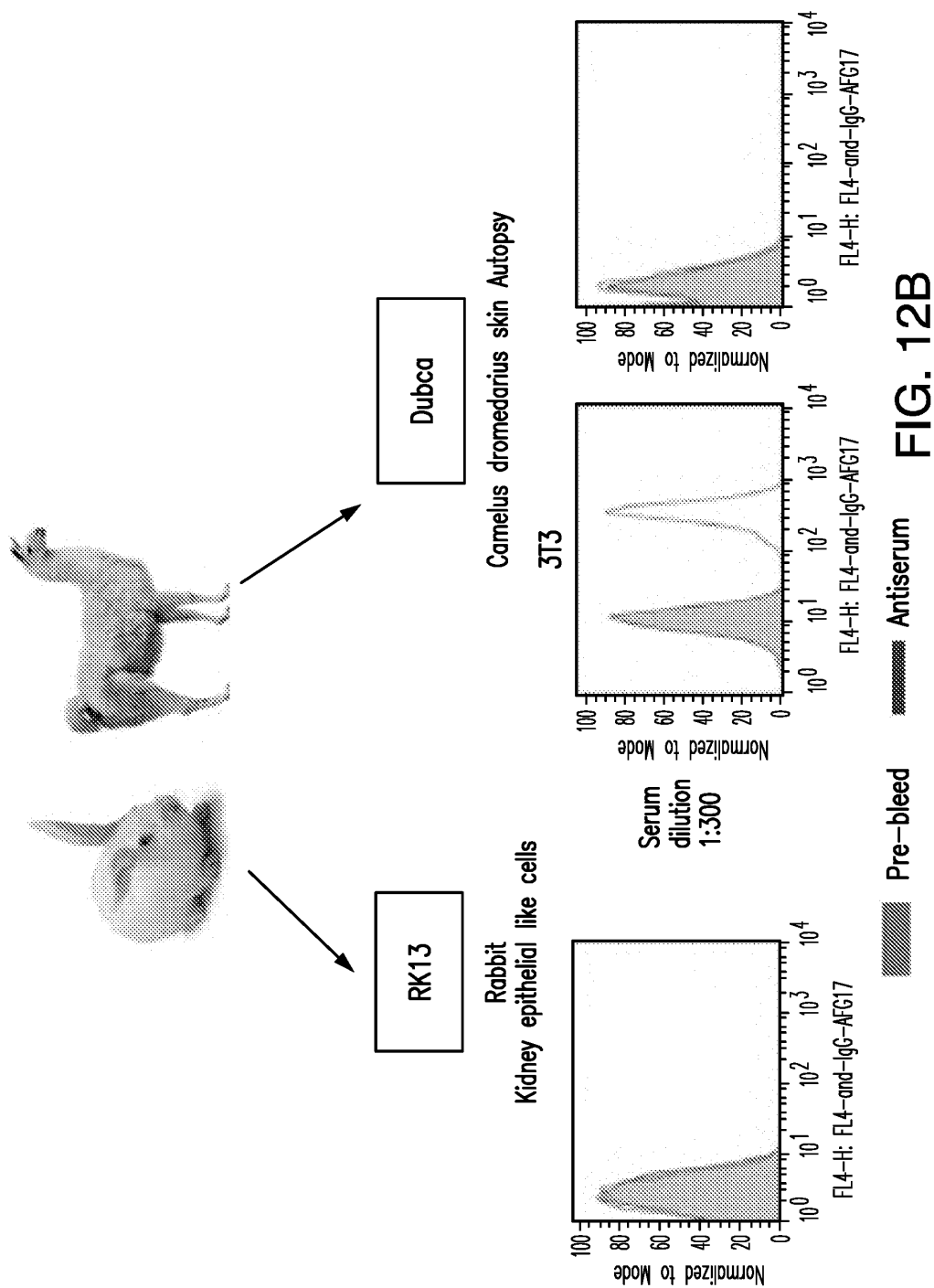


FIG. 12A



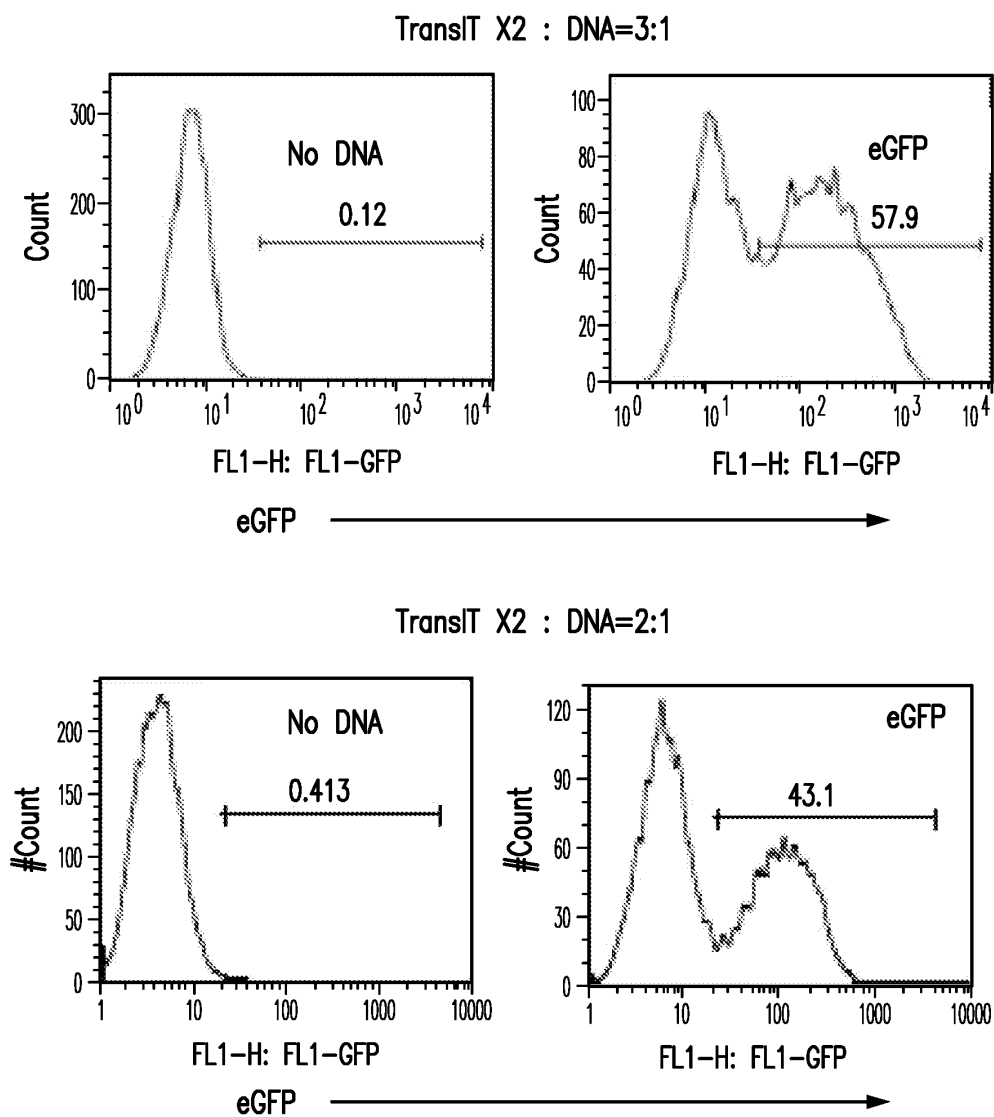


FIG. 12C

EV yield comparison (ug)

	293S 500 ml 7 days	RBA 14X15-cm dishes 700 ml, 4 days	RBA Integra flask 700 ml, 2 days
ML Gag EV	1237	122	
mHrs EV	767	109	46
MP6-mHrs	940	130	
RBA EV			11

Poor viability

FIG. 13

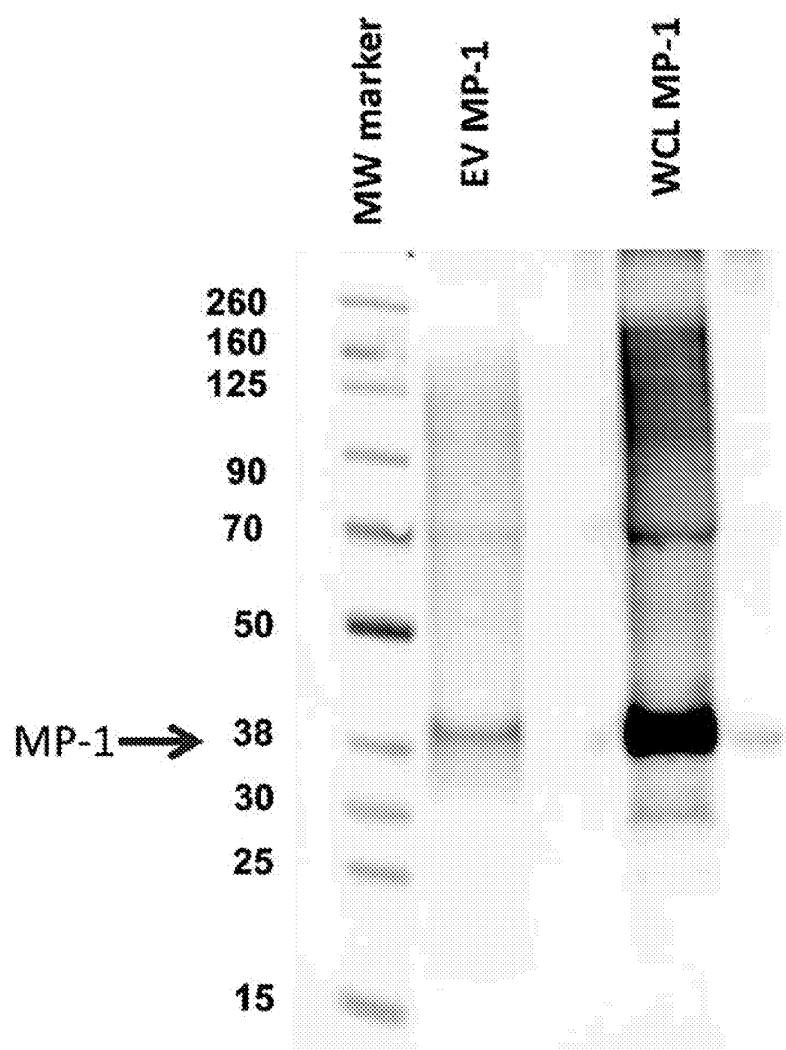


FIG. 14

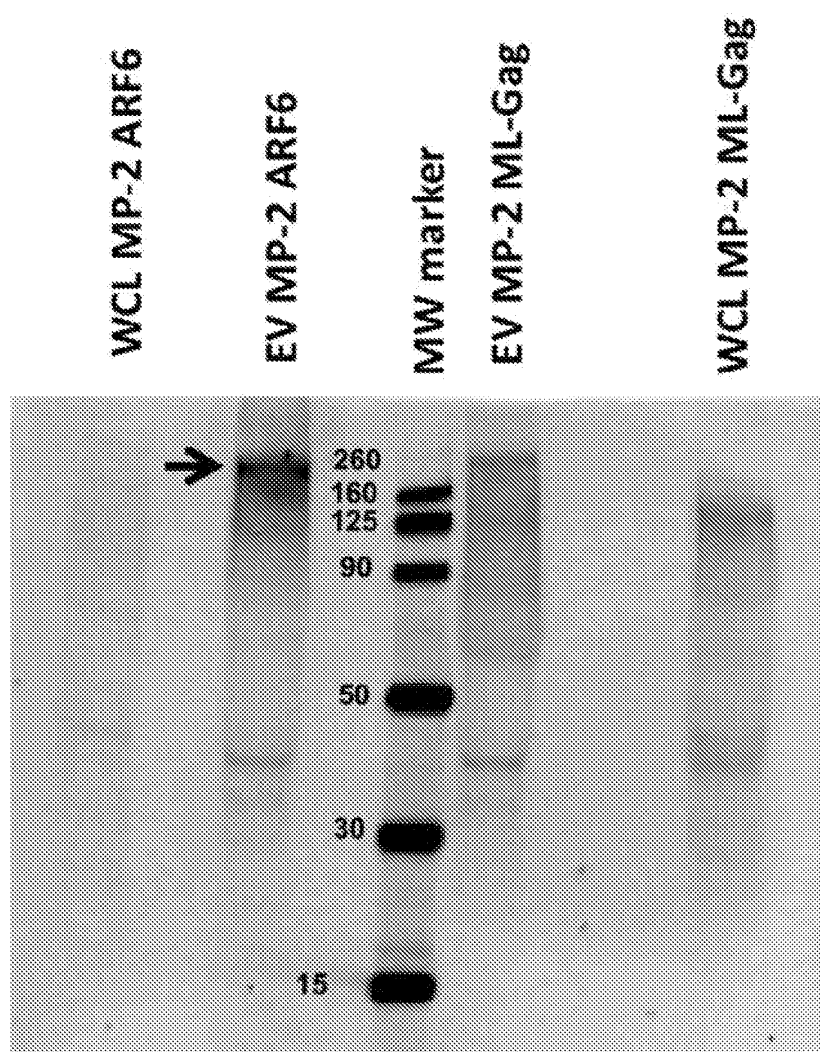


FIG. 15

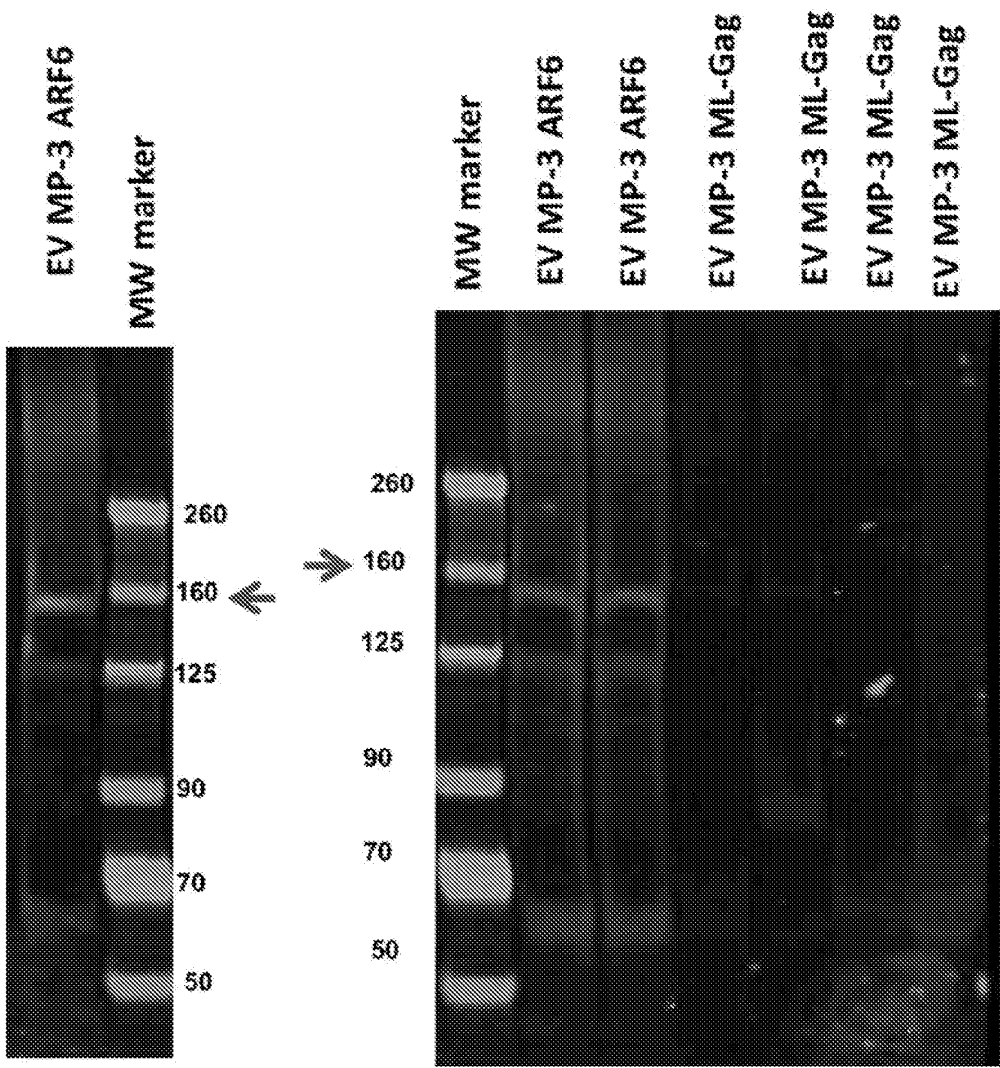


FIG. 16

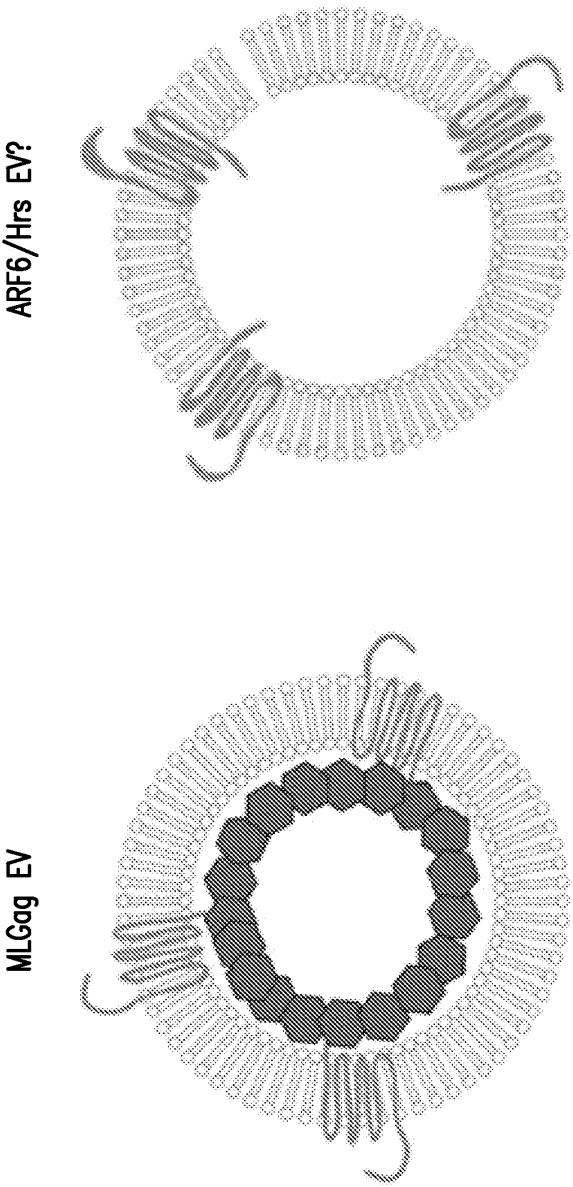


FIG. 17

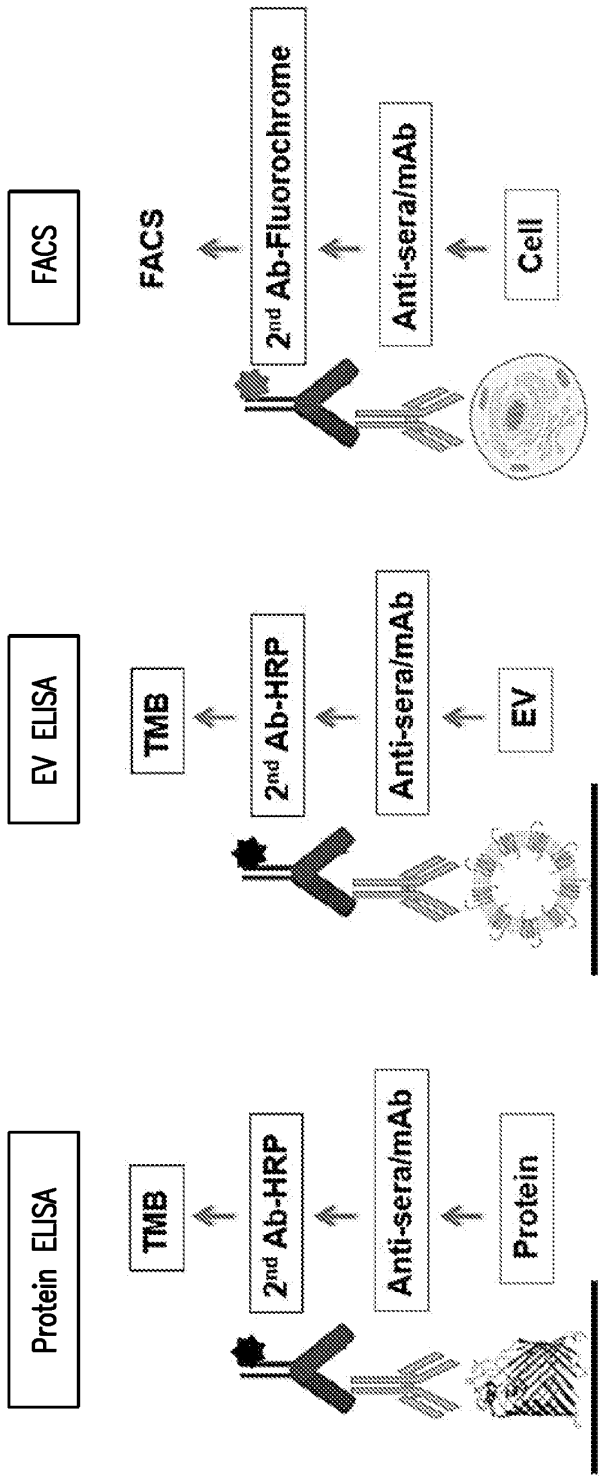
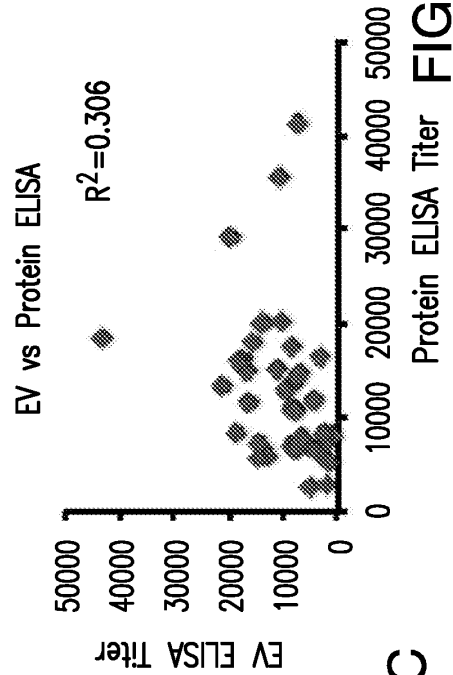
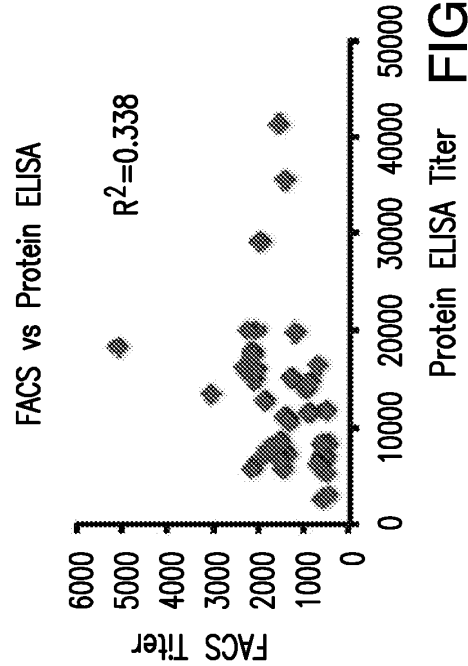
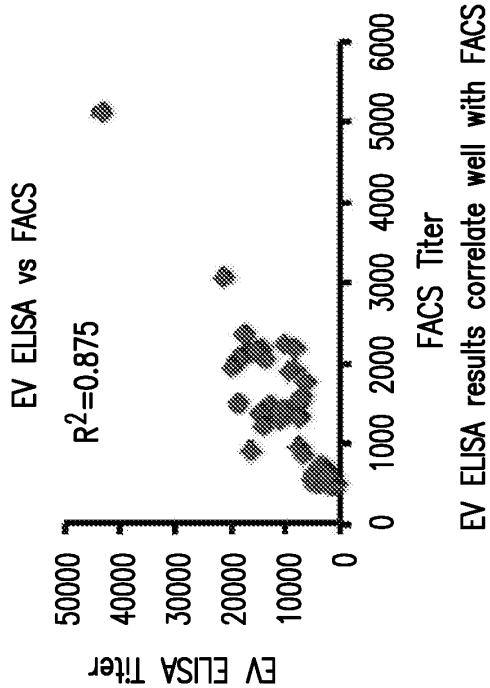
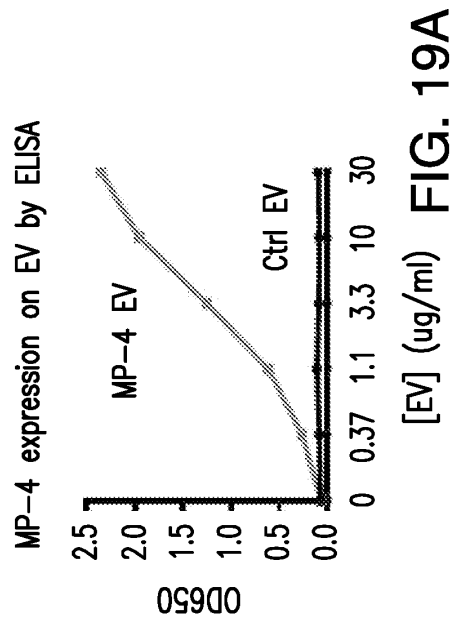


FIG. 18



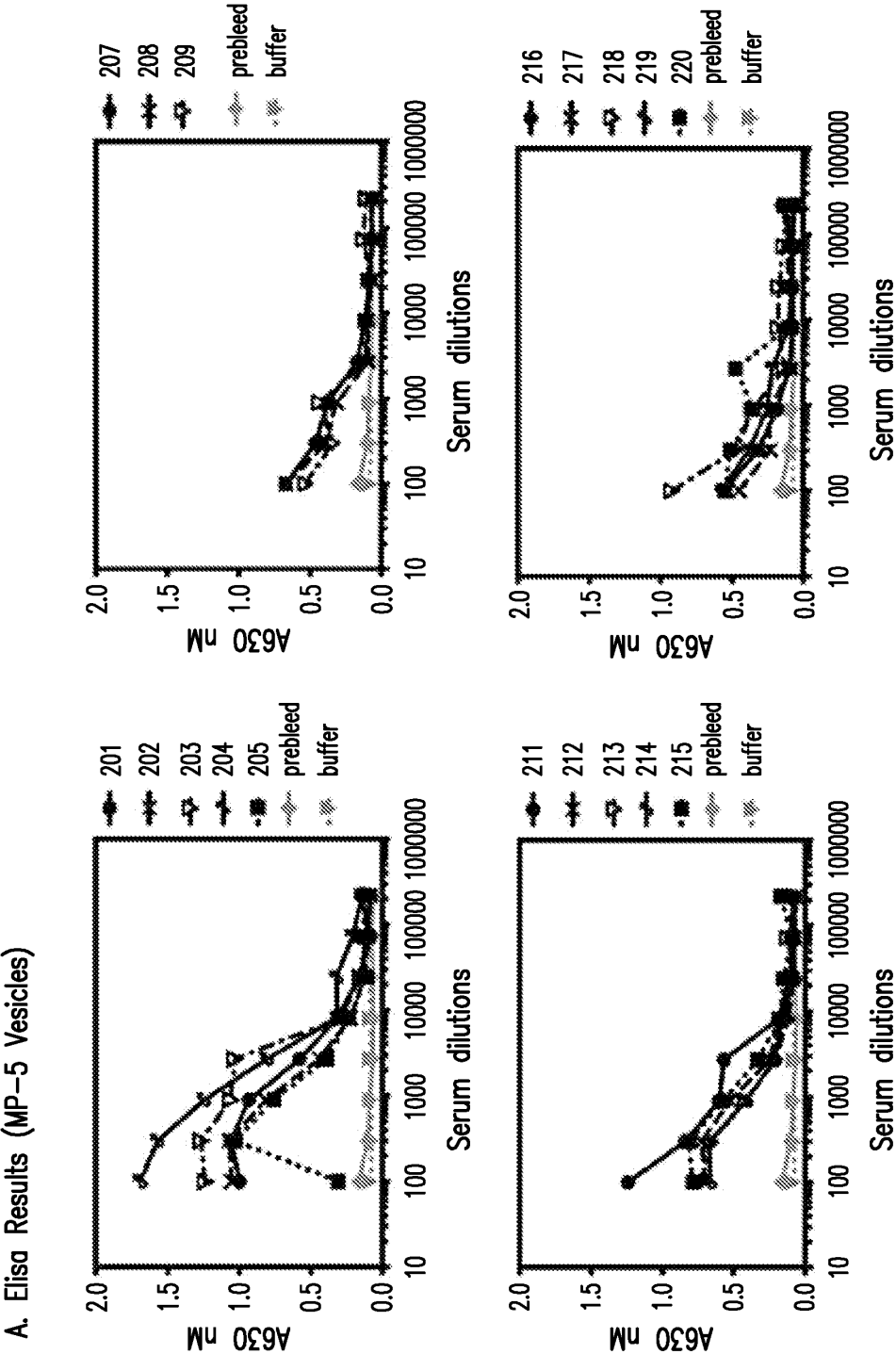


FIG. 20A

B. FACS Results (293-MP-5 cells)

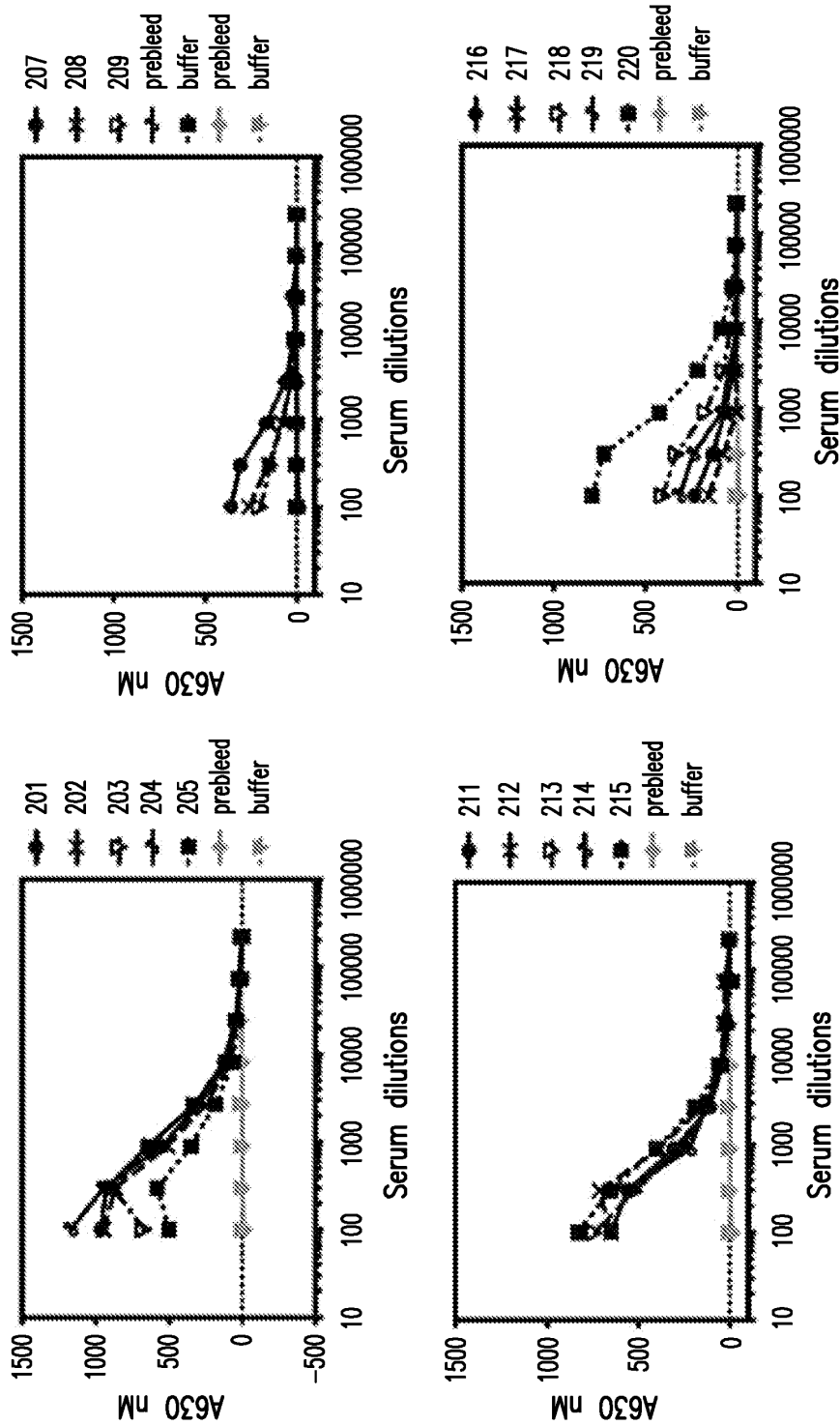


FIG. 20B

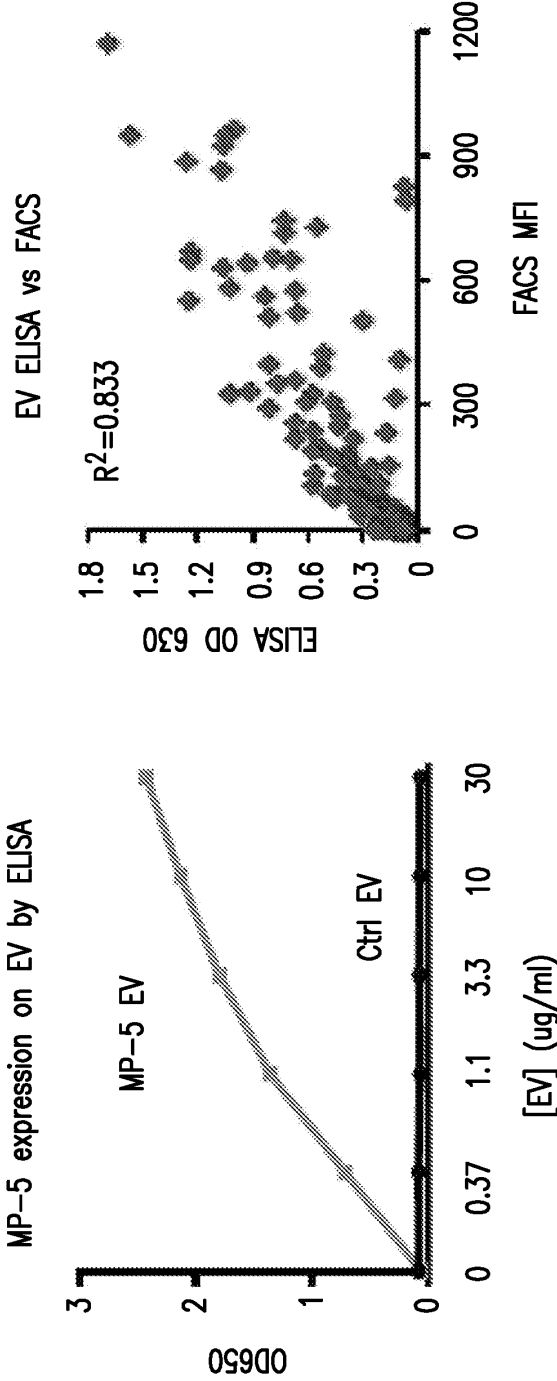
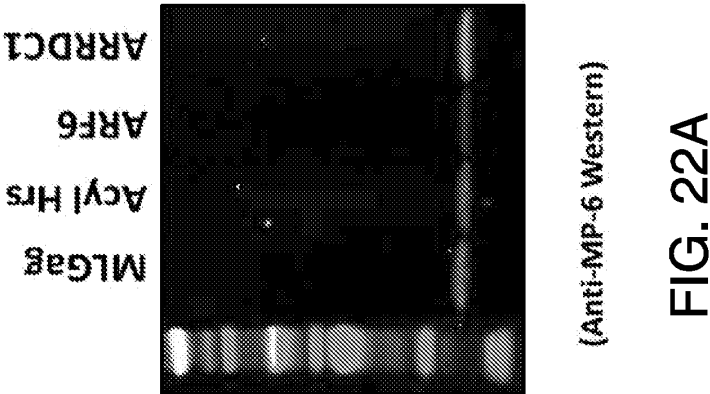
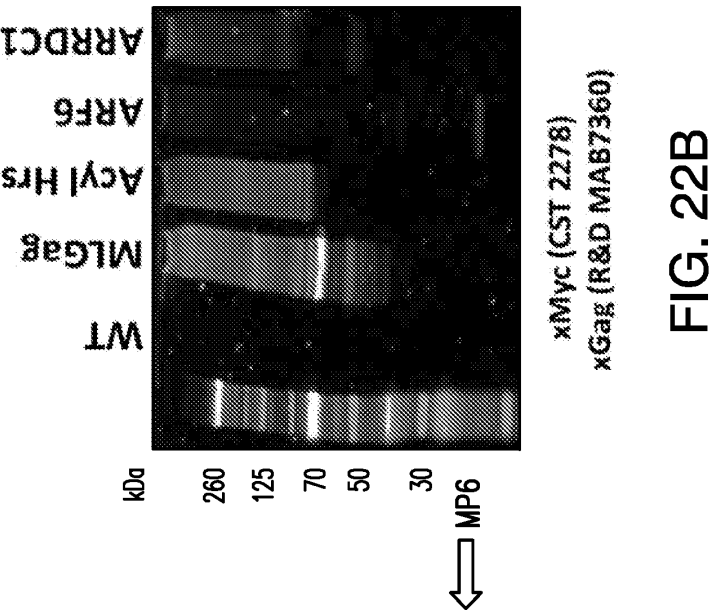
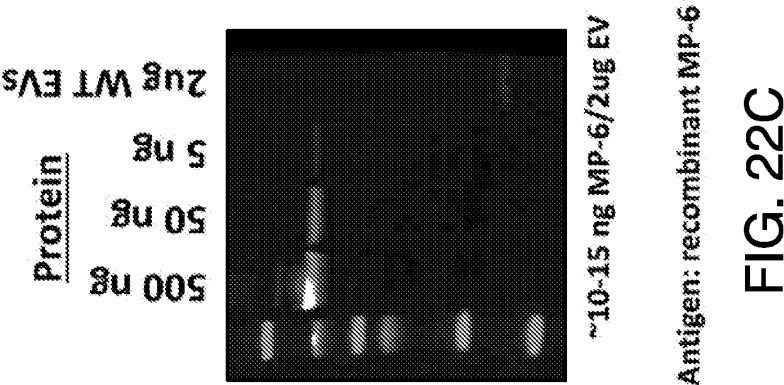


FIG. 21



Immunization	Boost	Rat #
MP-6-MLGag EV in PBS	DNA	76-78
MP-6-MLGag EV in PBS	protein	79-81
MP-6-MLGag EV in Ribi	Protein	82-84
MP-6-MLGag EV in Ribi	DNA	91-93
MP-6-mHRS EV in PBS		88-90
MP-6-mHRS EV in Ribi	DNA	85-87

FIG. 23

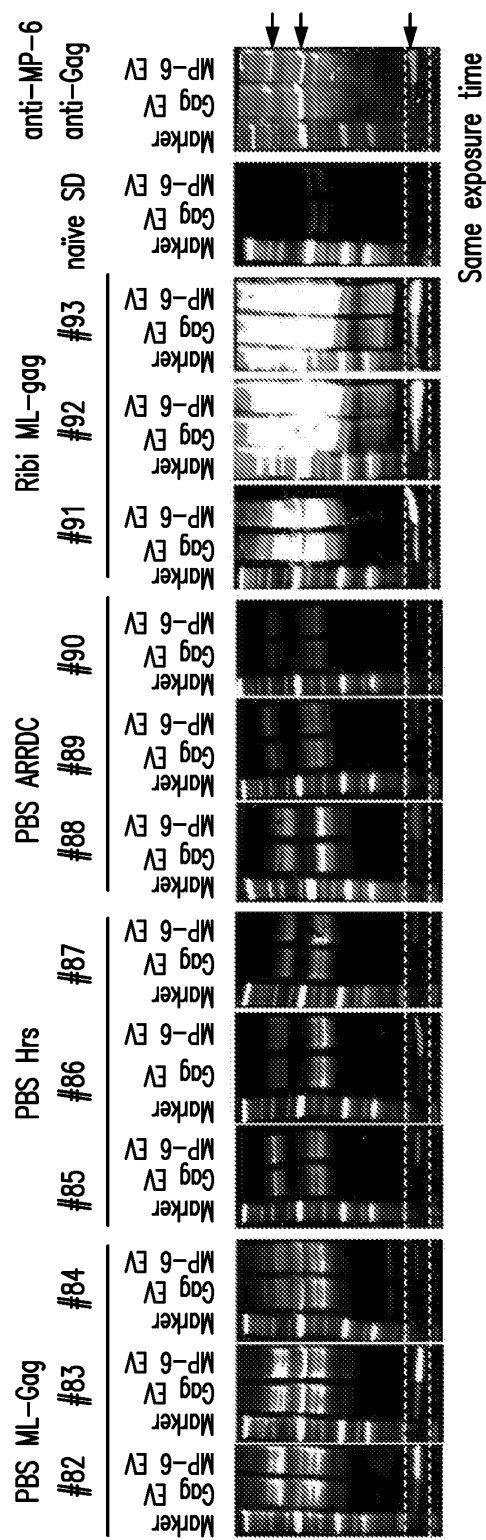


FIG. 24A

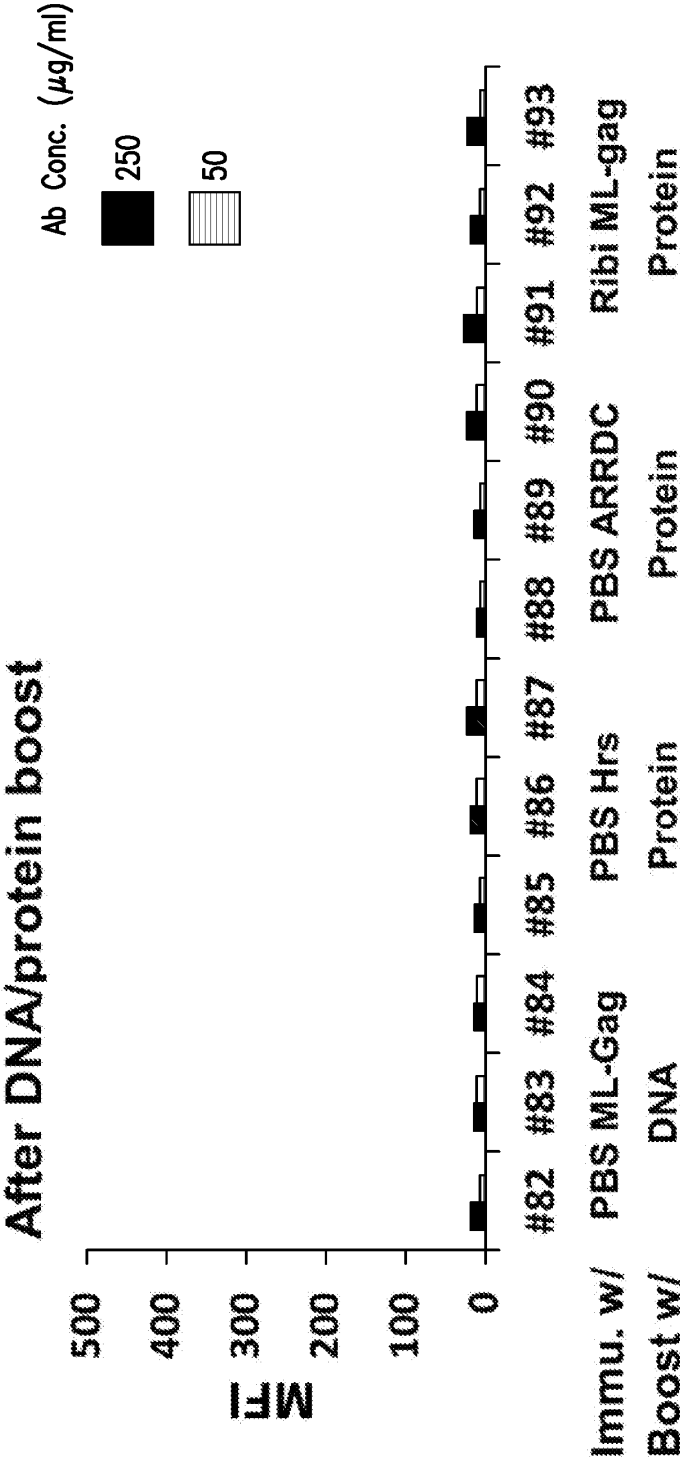


FIG. 24B

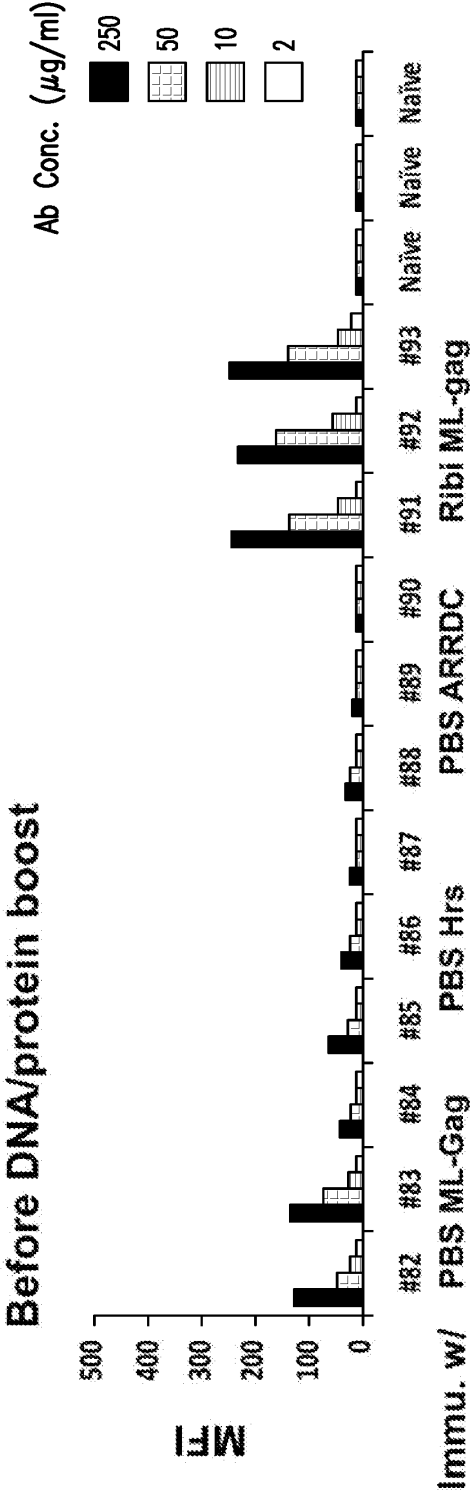


FIG. 24C

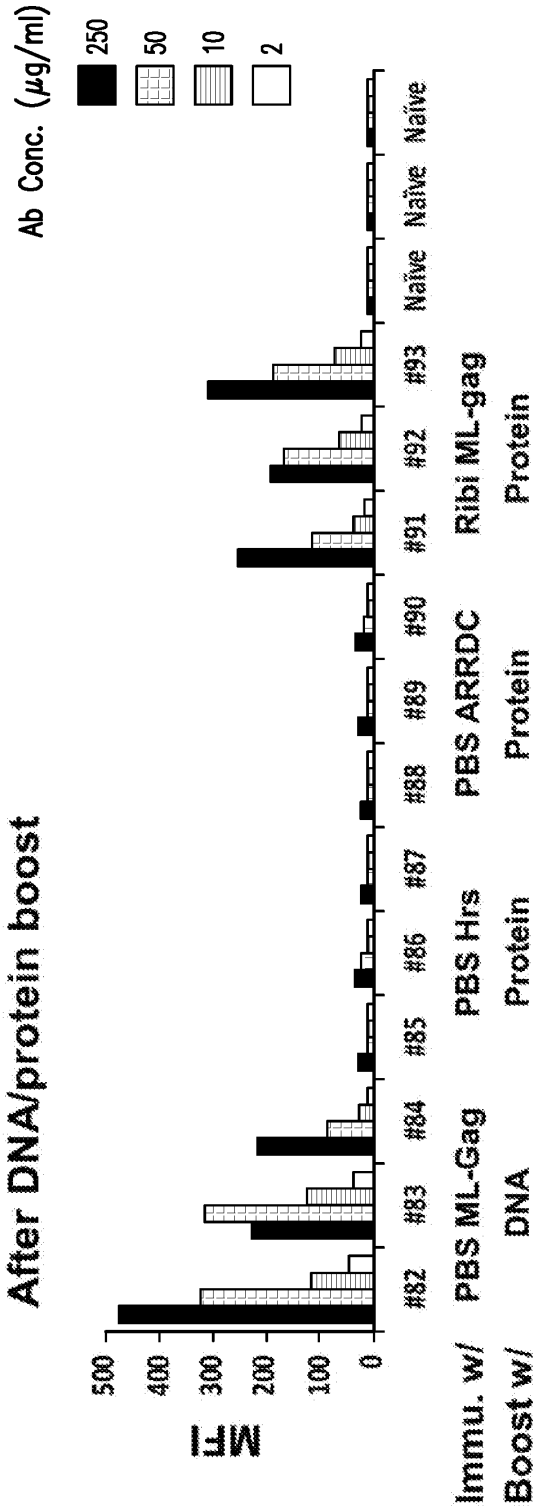
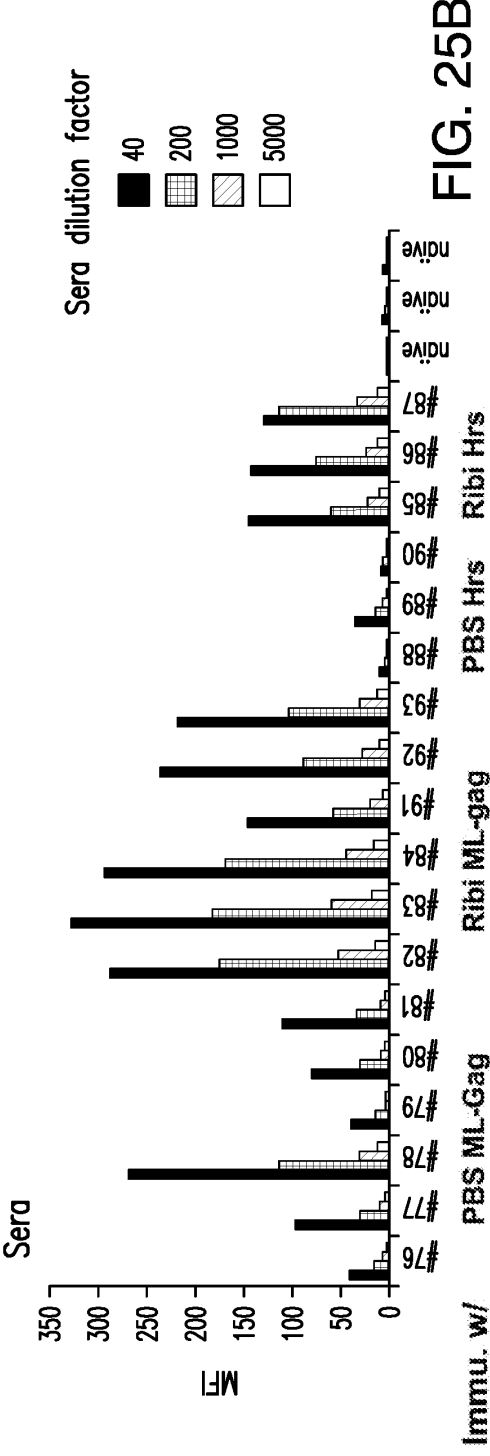
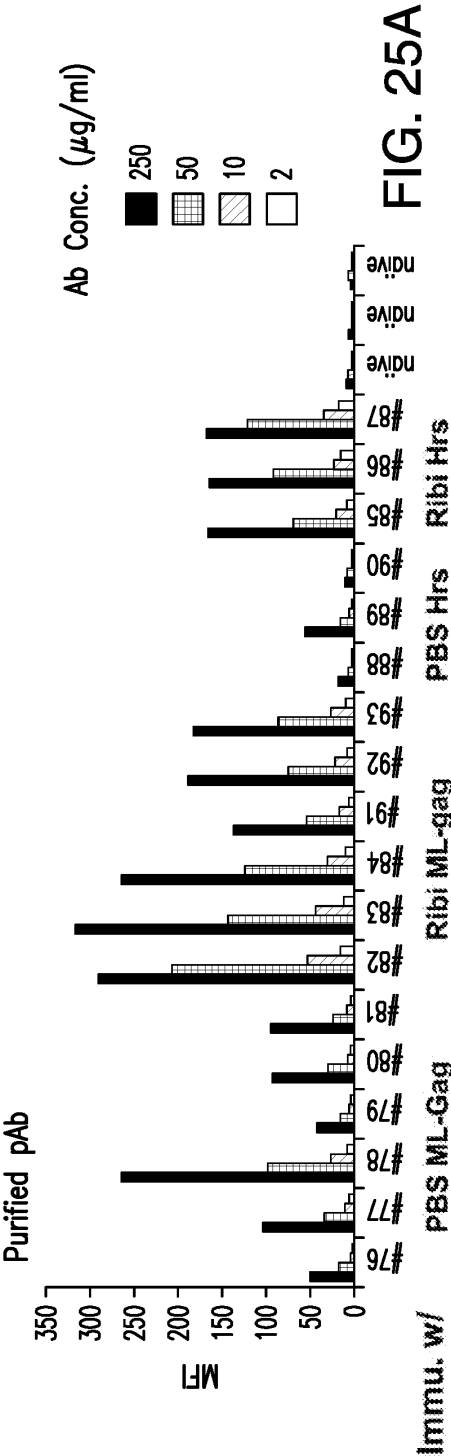


FIG. 24D



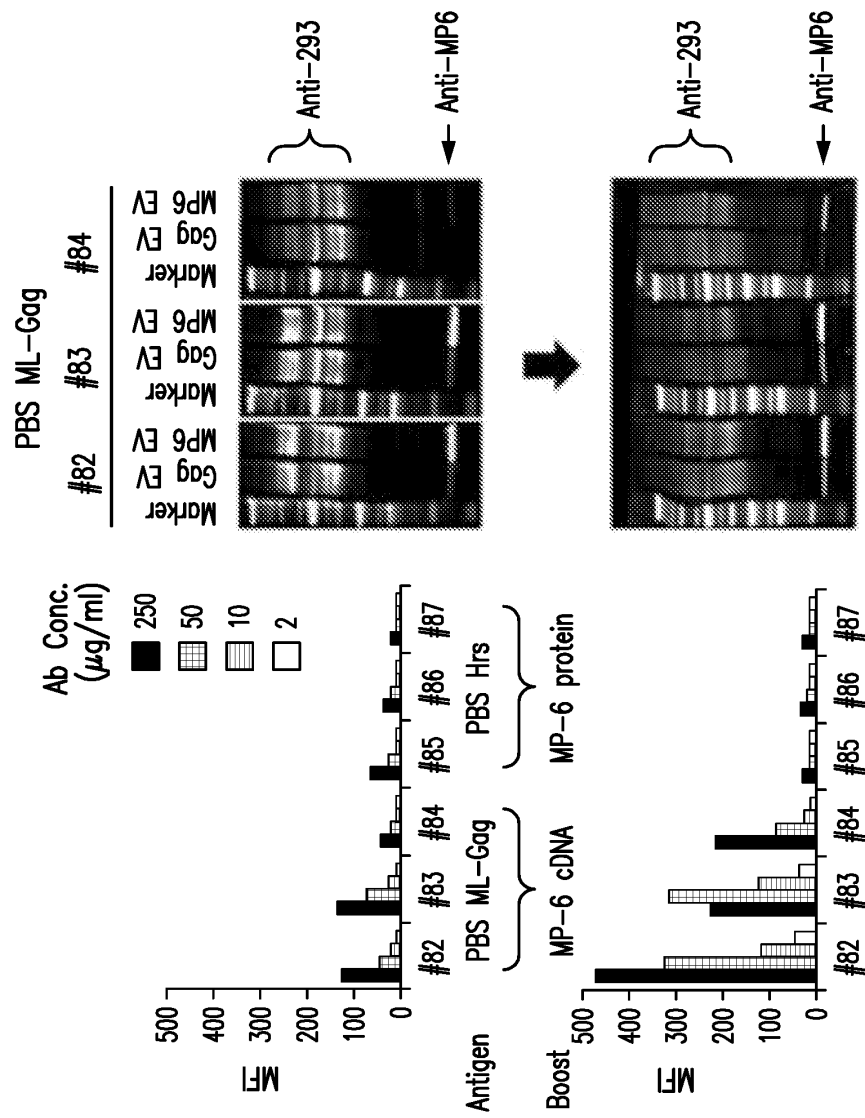


FIG. 26

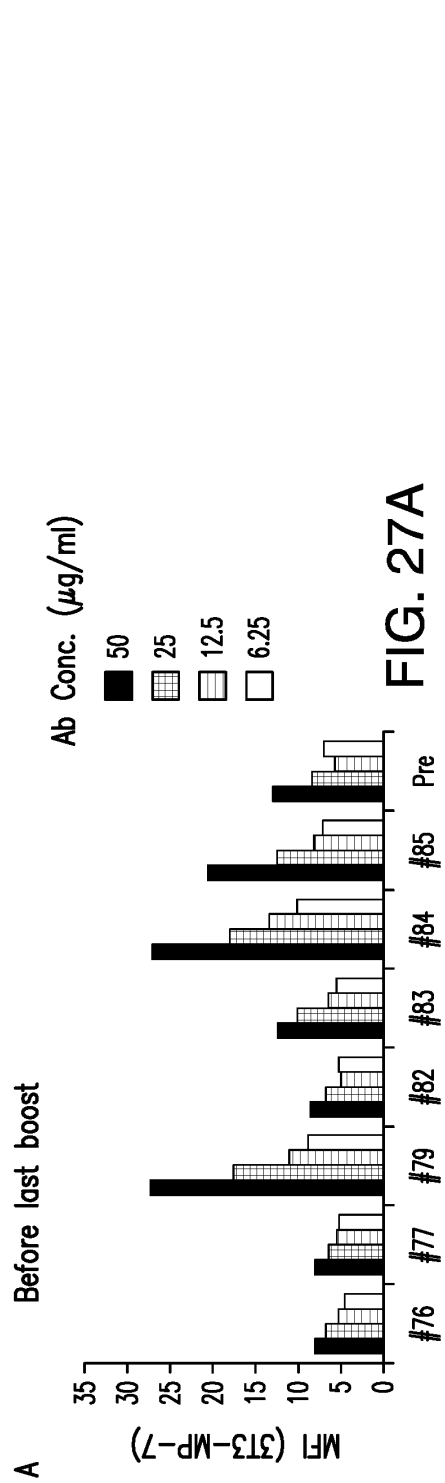


FIG. 27A

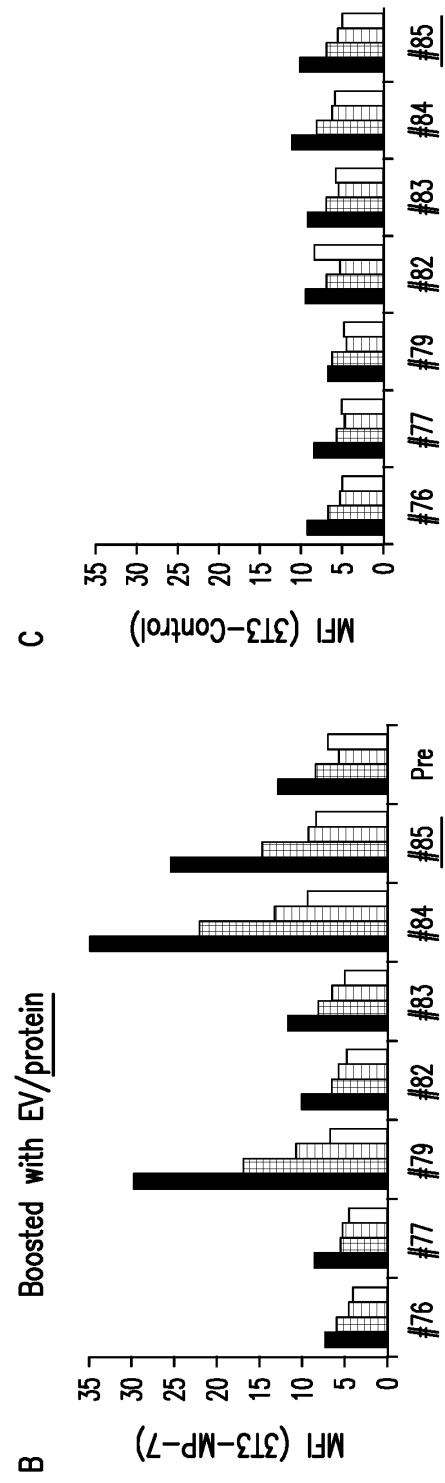


FIG. 27B

FIG. 27C

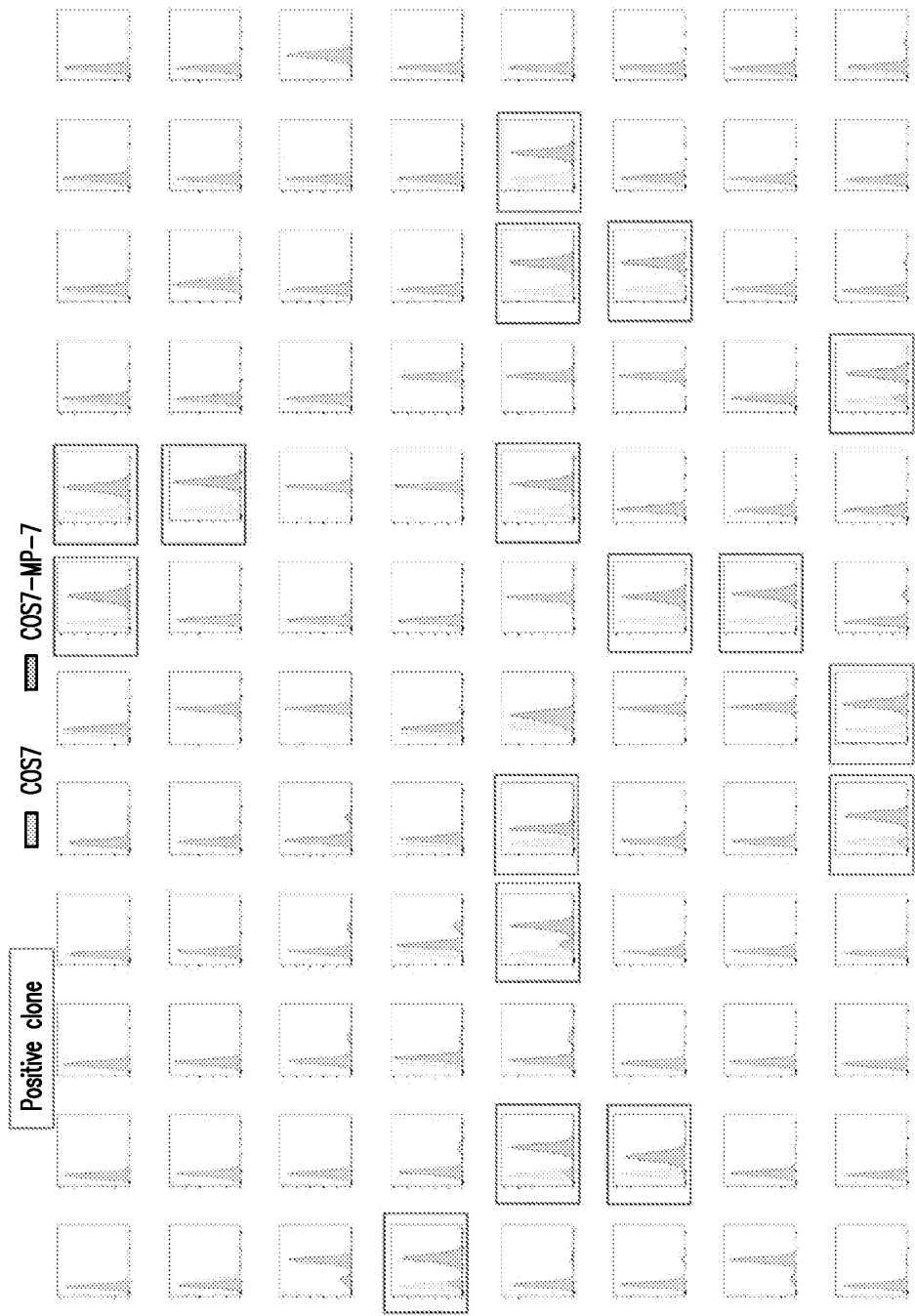
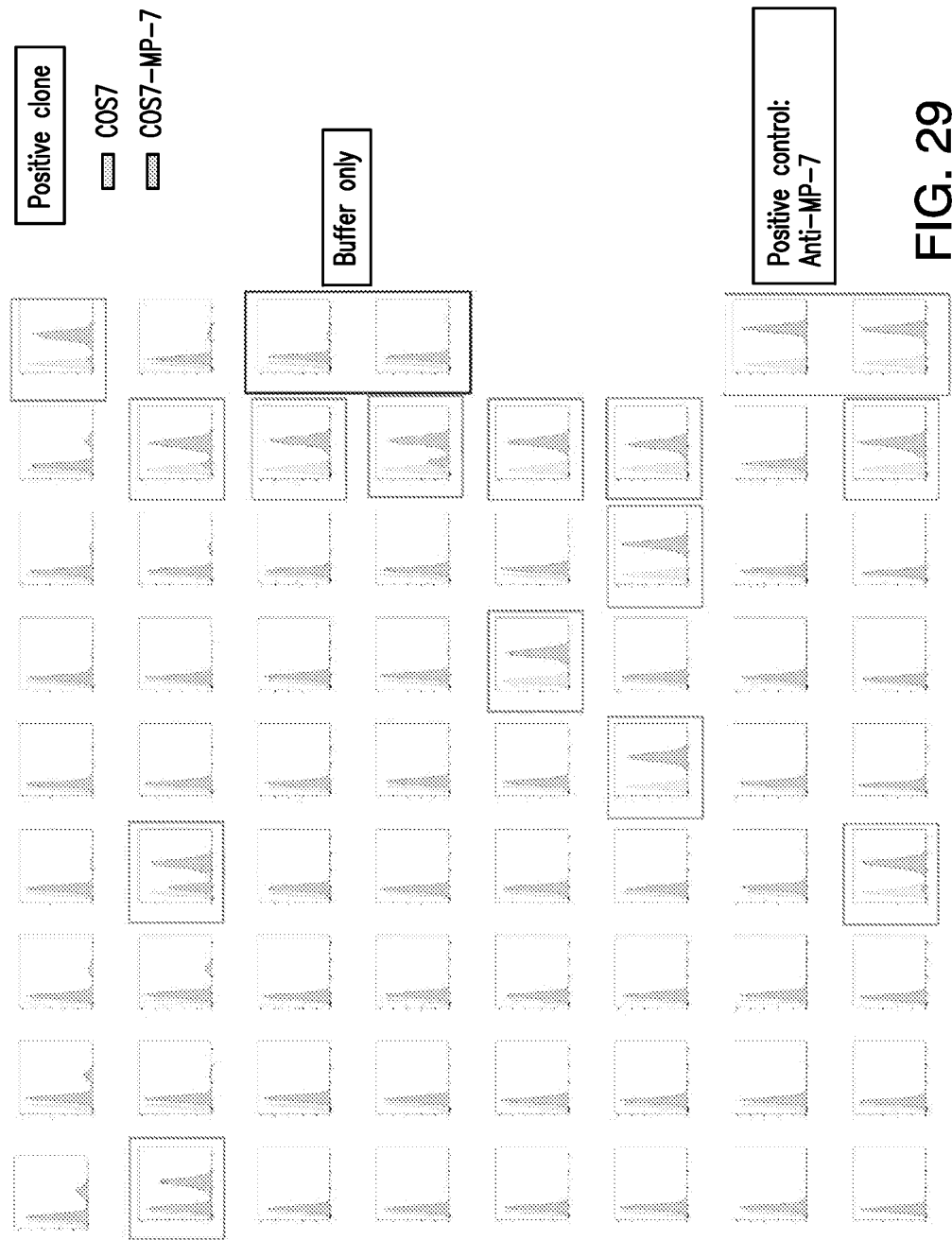


FIG. 28



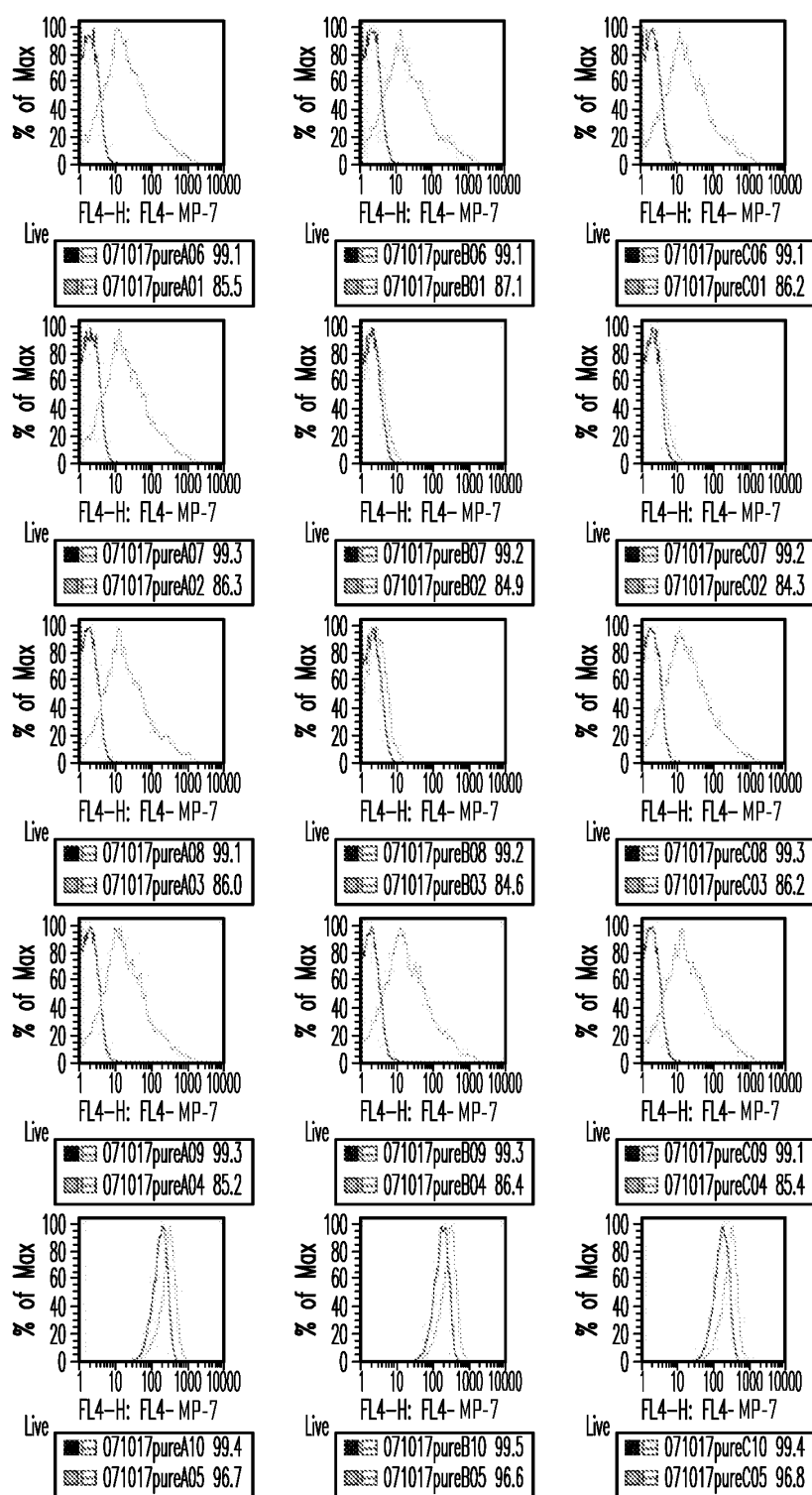


FIG. 30

SUBSTITUTE SHEET (RULE 26)

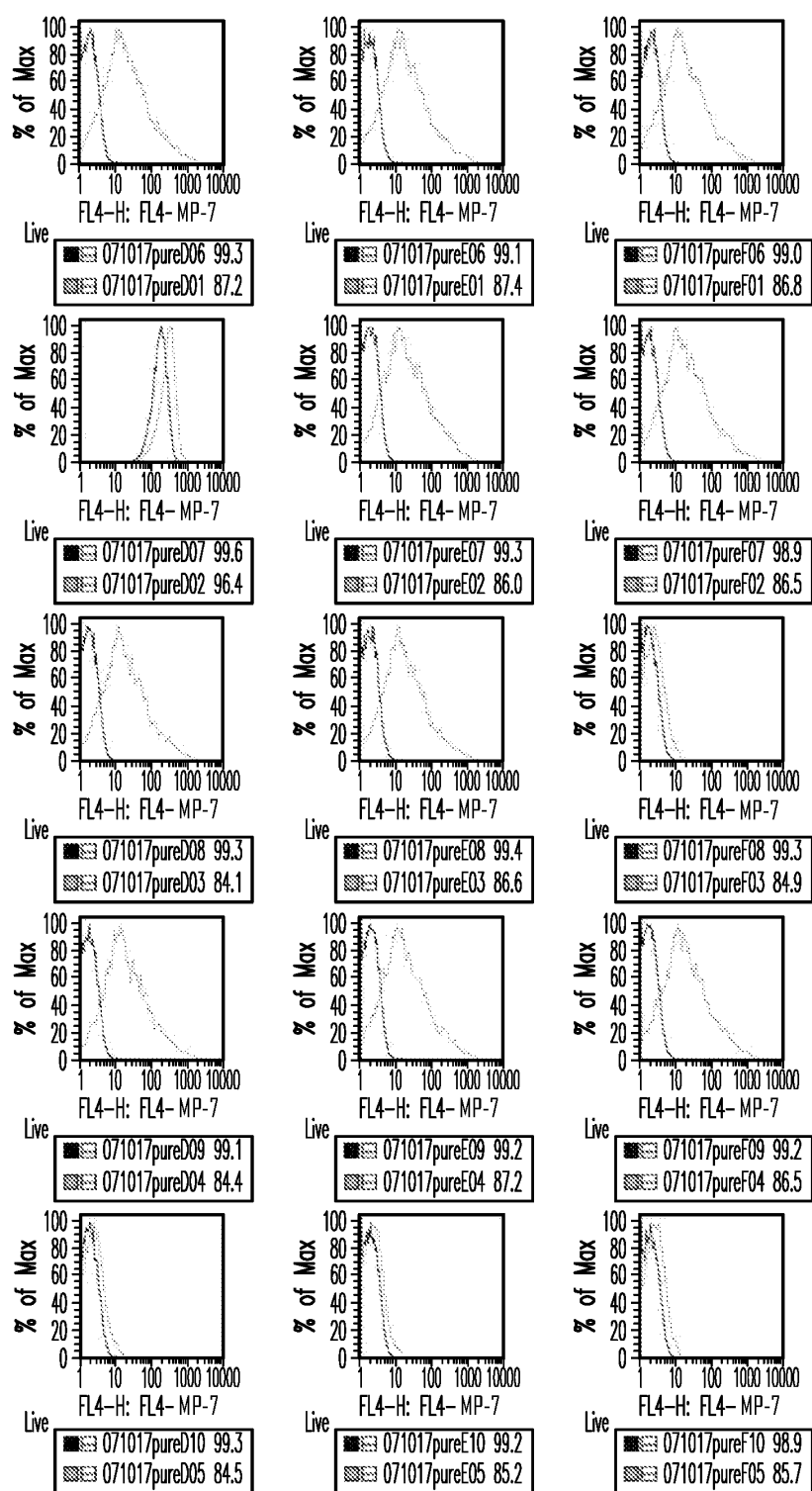


FIG. 30 continued

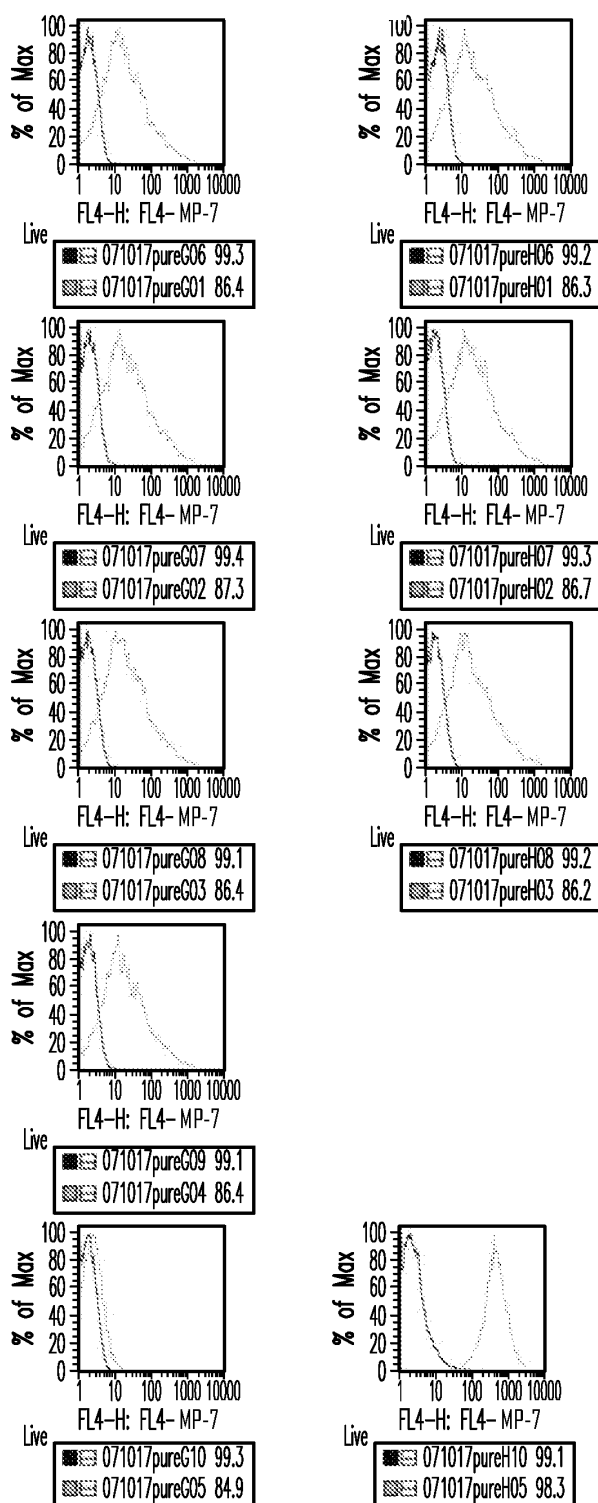
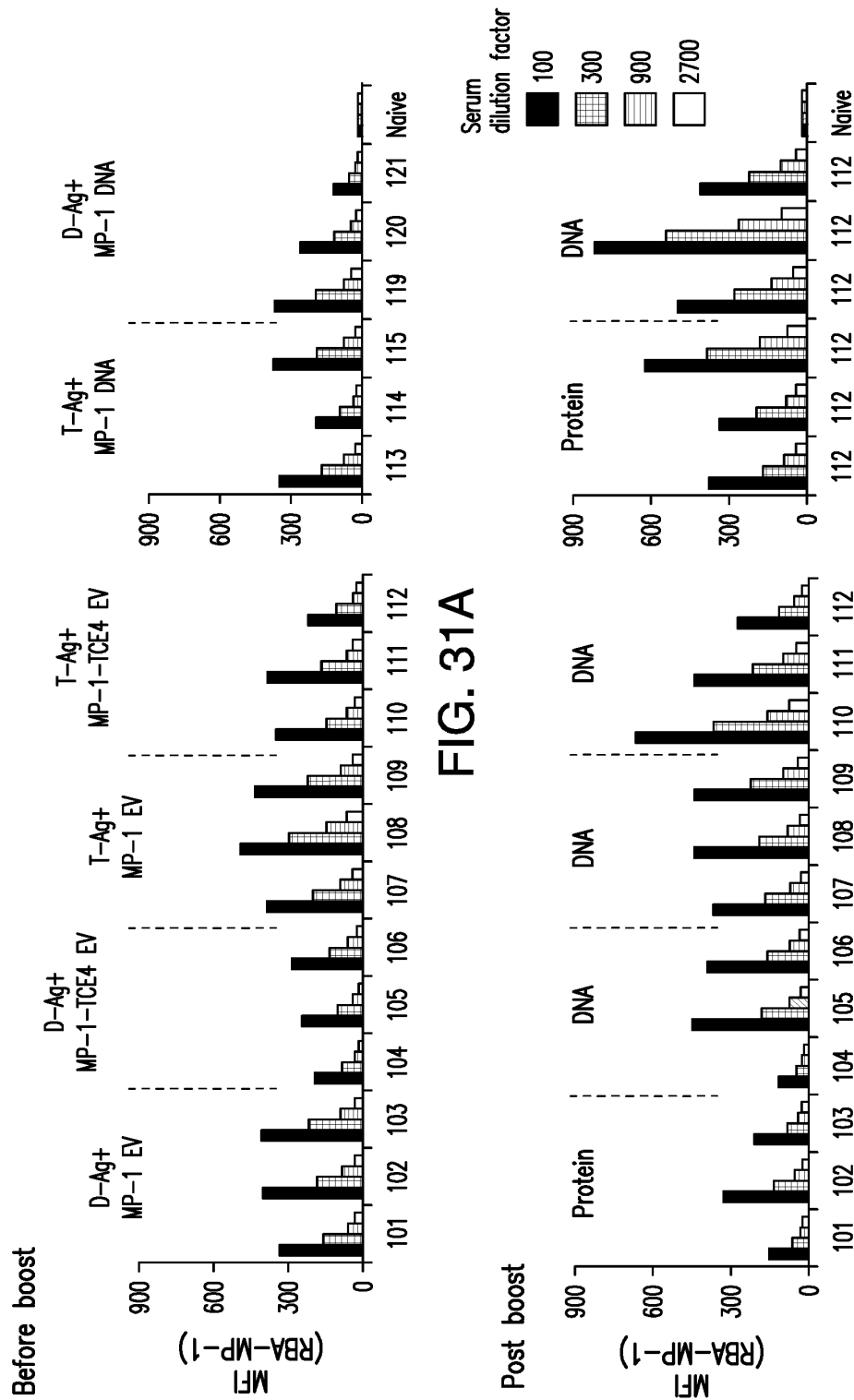


FIG. 30 continued

SUBSTITUTE SHEET (RULE 26)



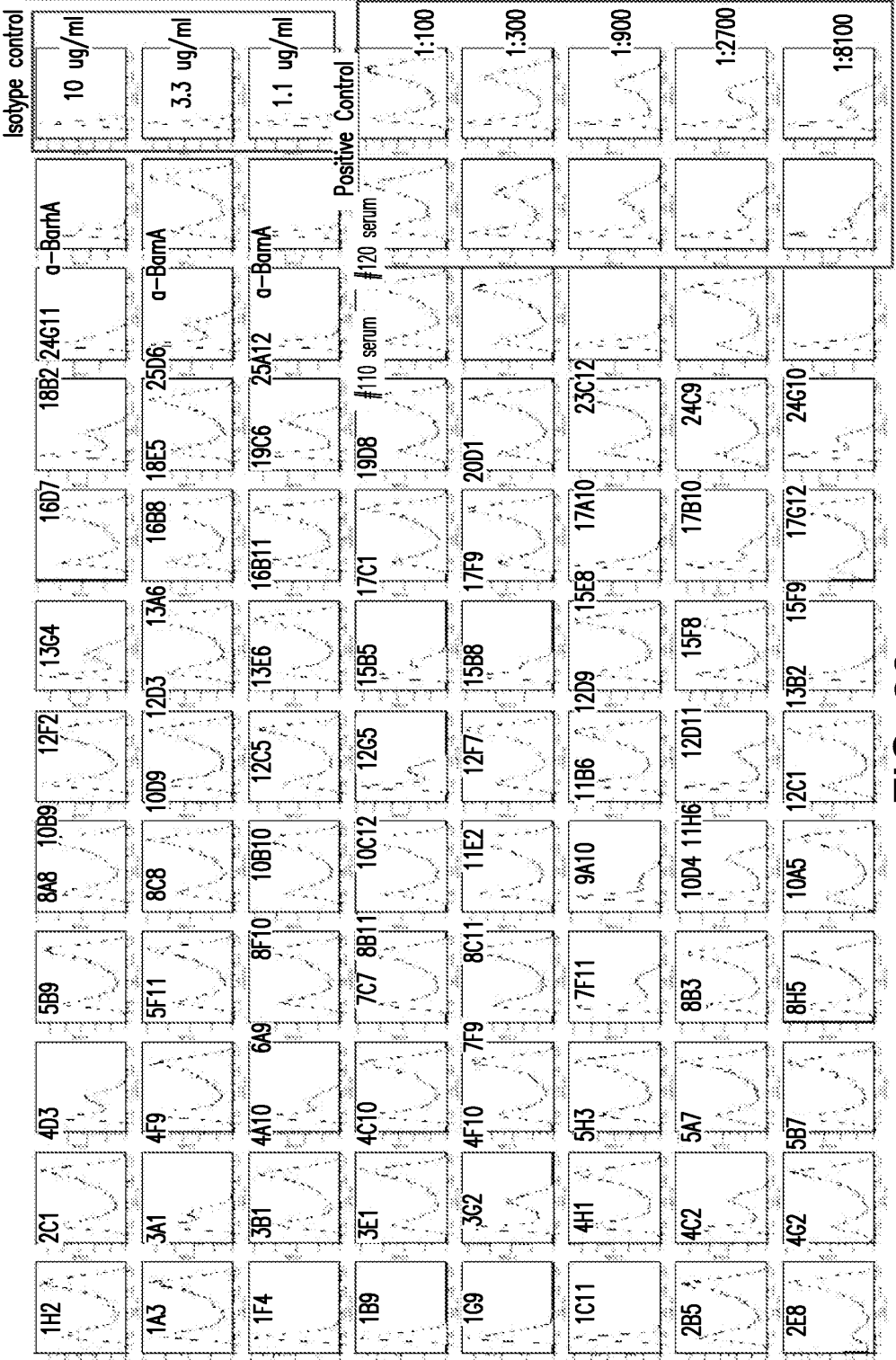


FIG. 32

Antigen	# ELISA+	# FACS+	% FACS+
Protein	1185	411	35
EV	373	273	73
DNA	377	313	83

FIG. 33

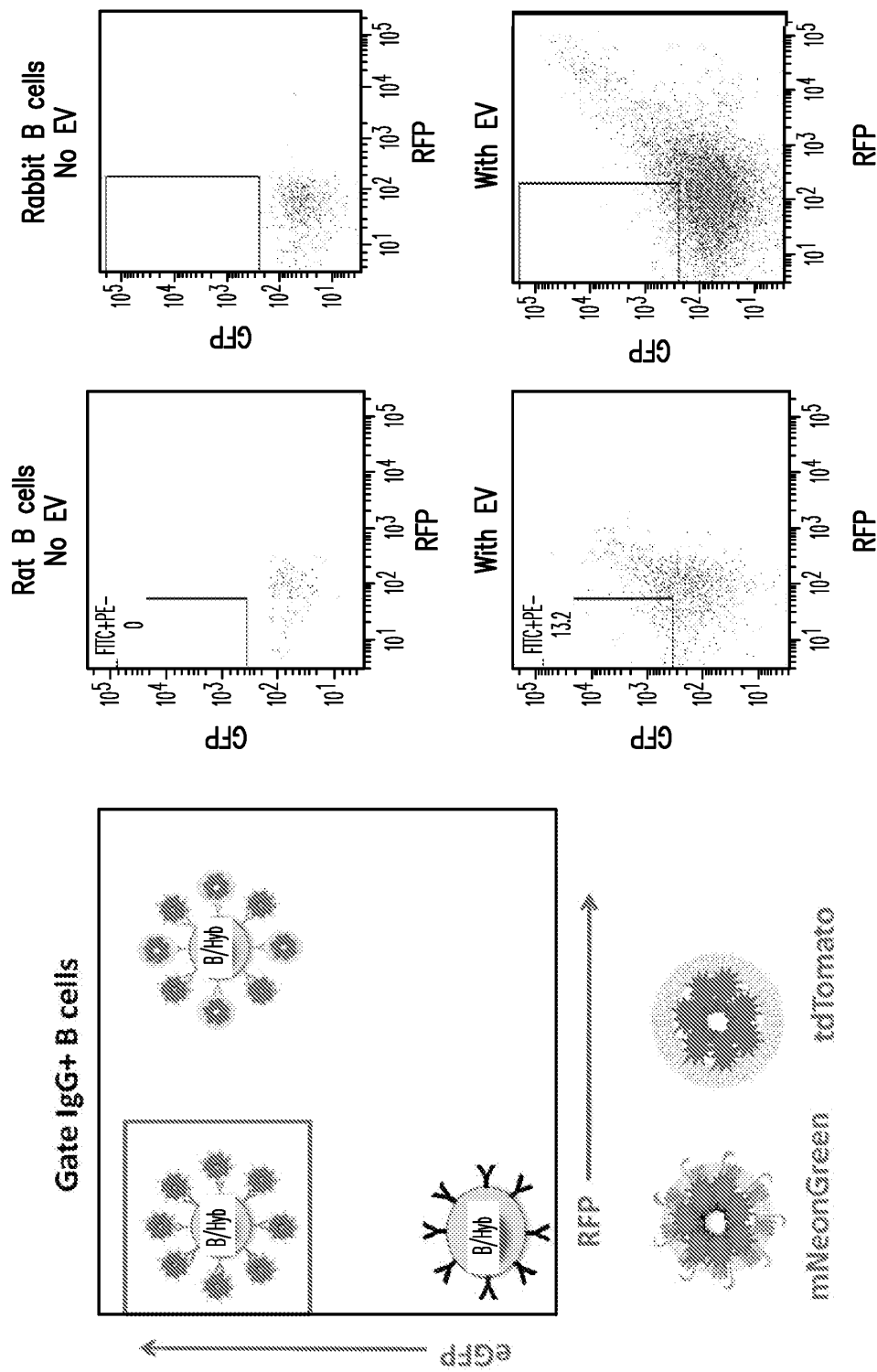
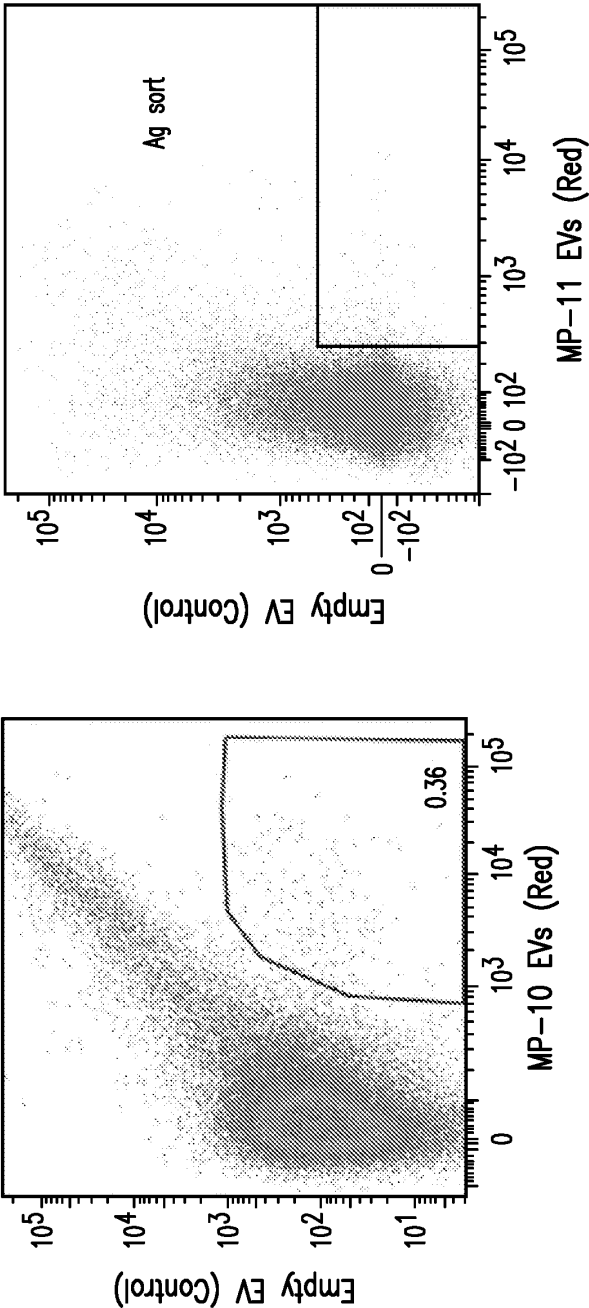


FIG. 34



Staining
profile of IgG⁺
rabbit B cells

FIG. 35

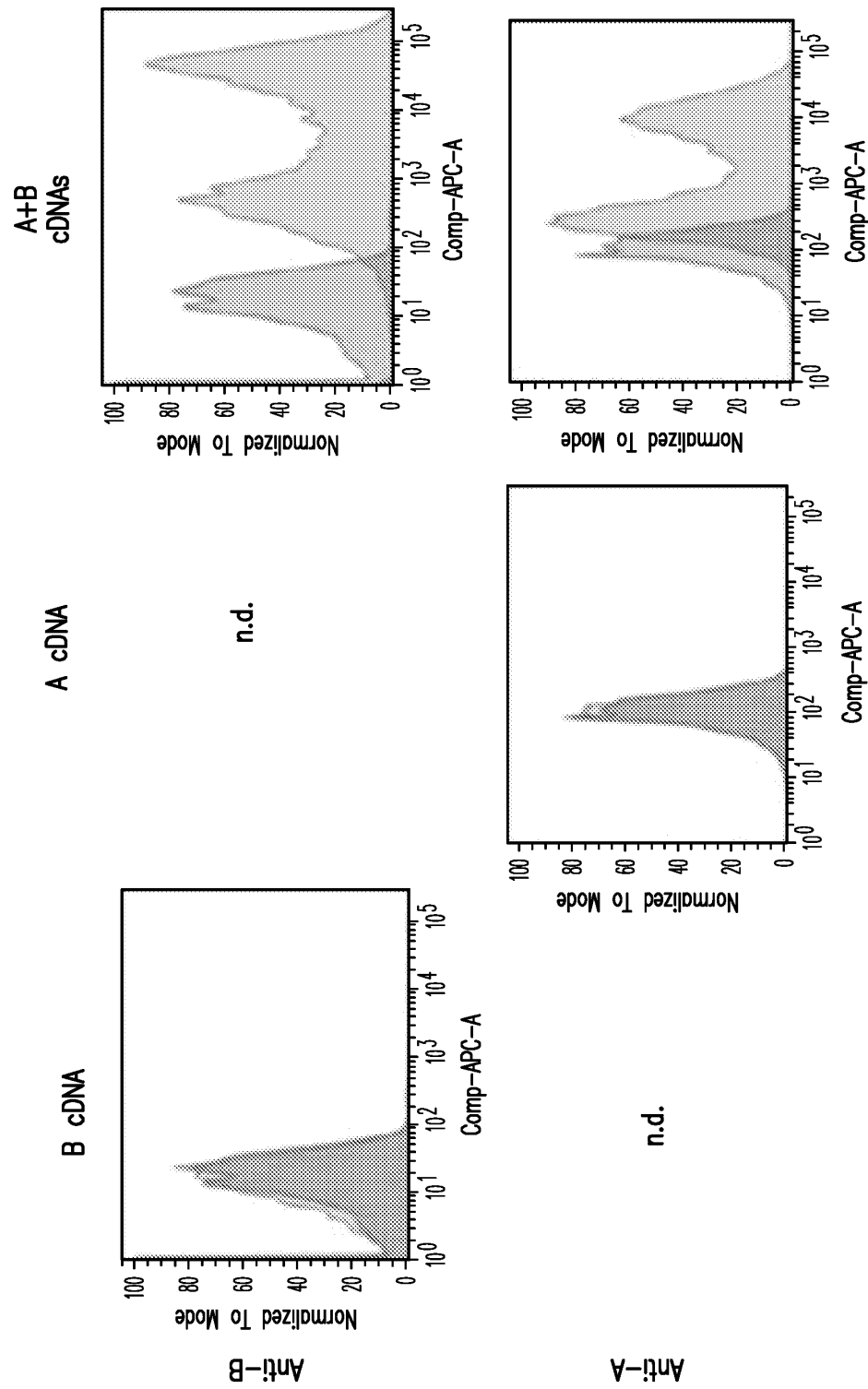


FIG. 36A

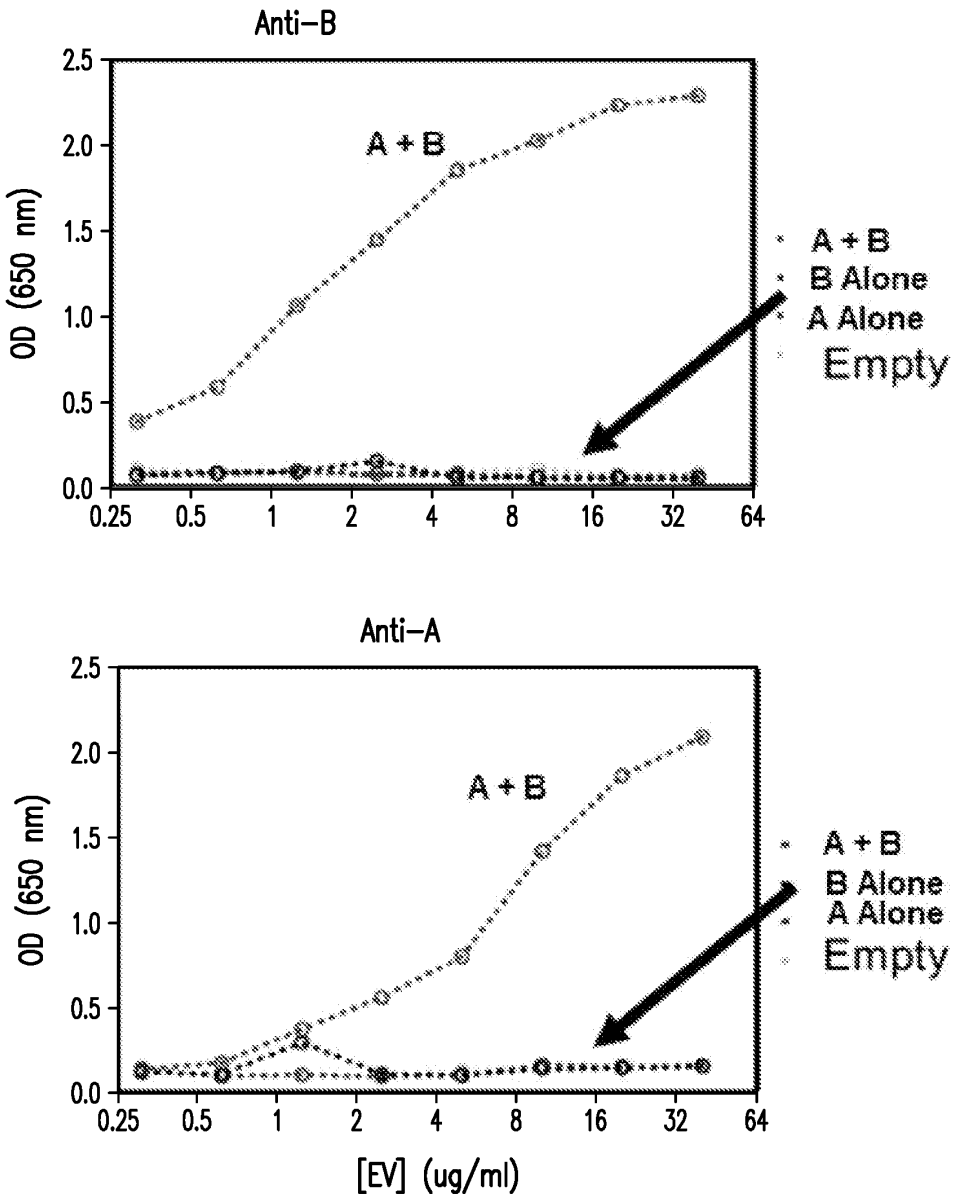


FIG. 36B