

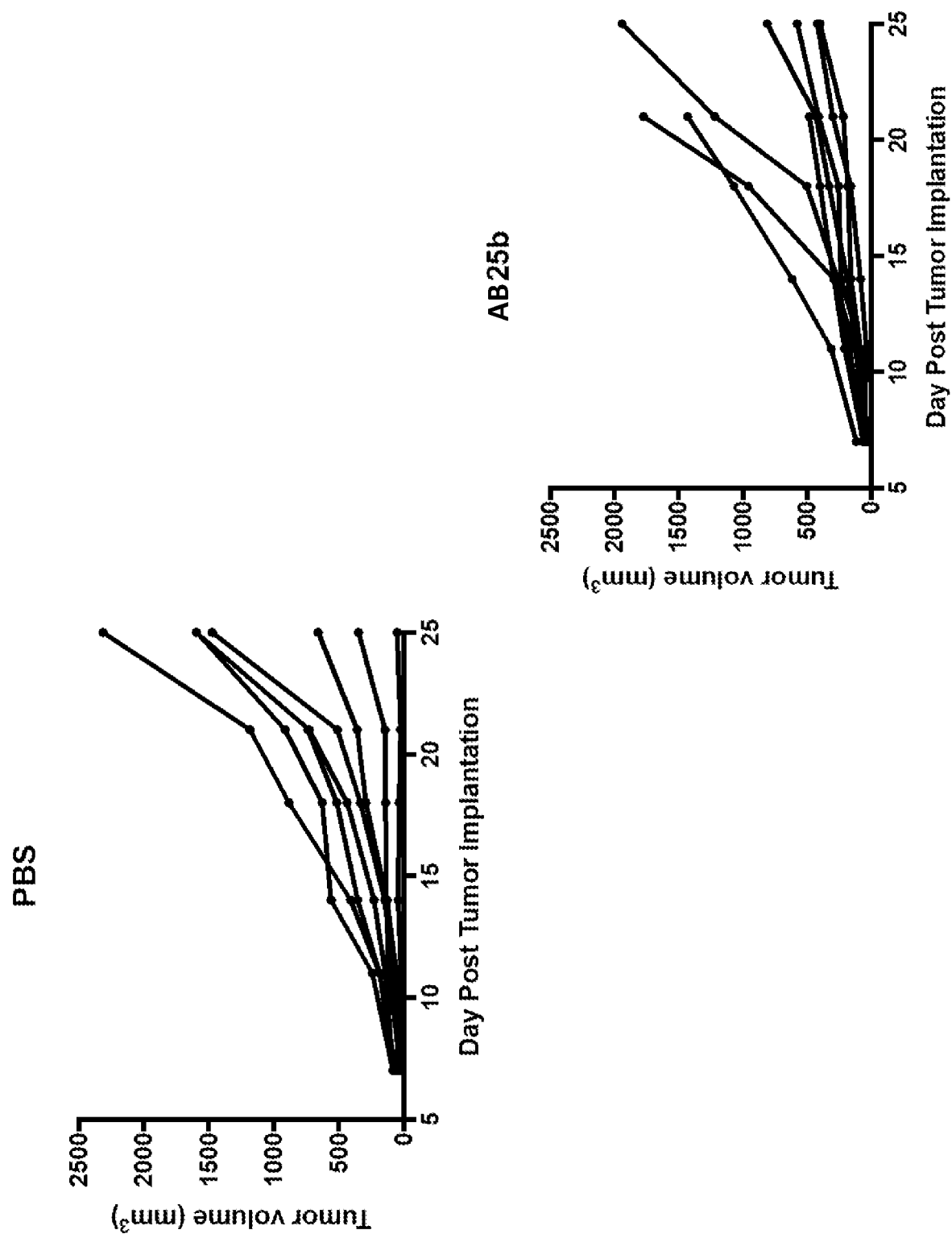


FIG. 1

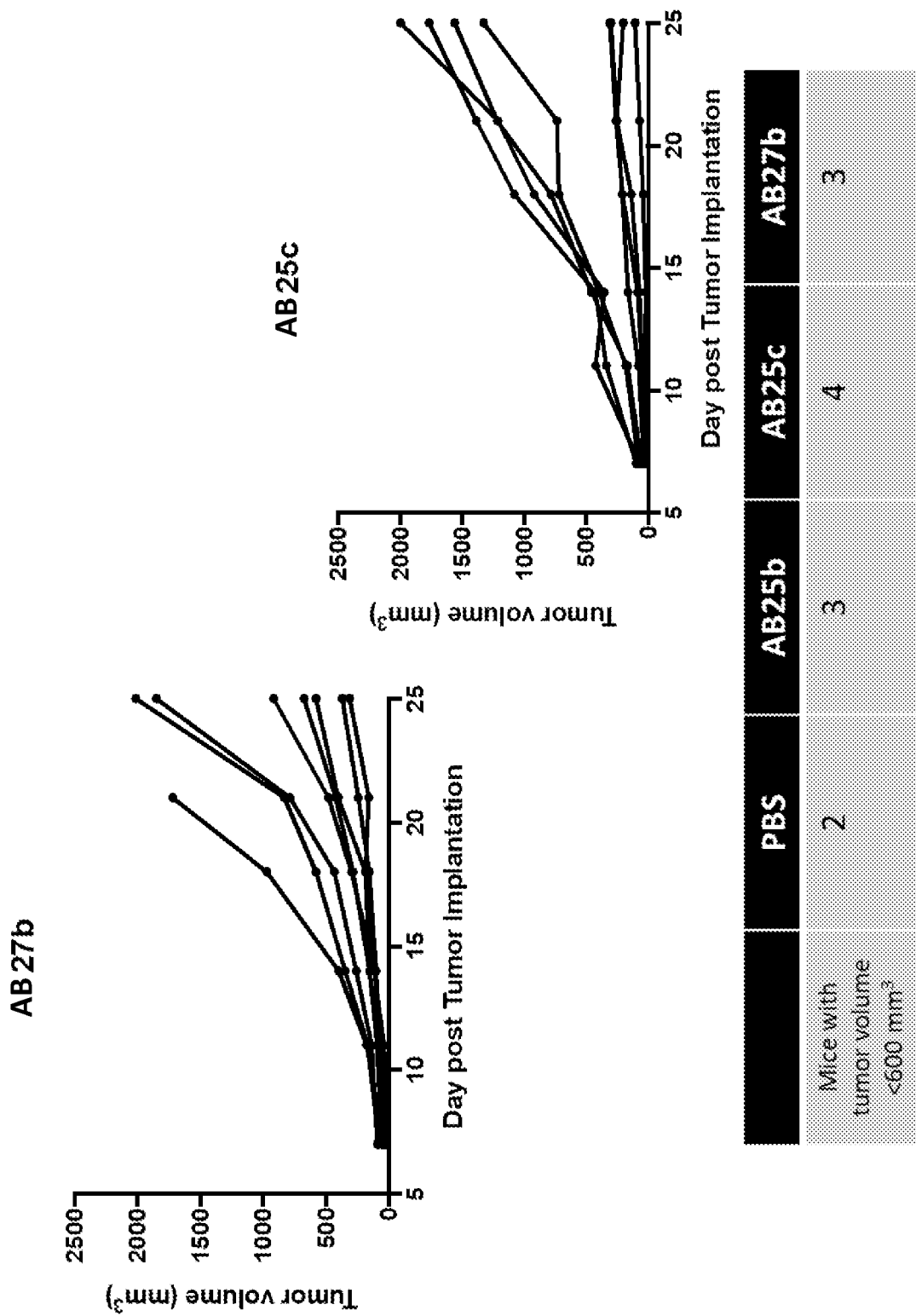


FIG. 1 (cont.'d)

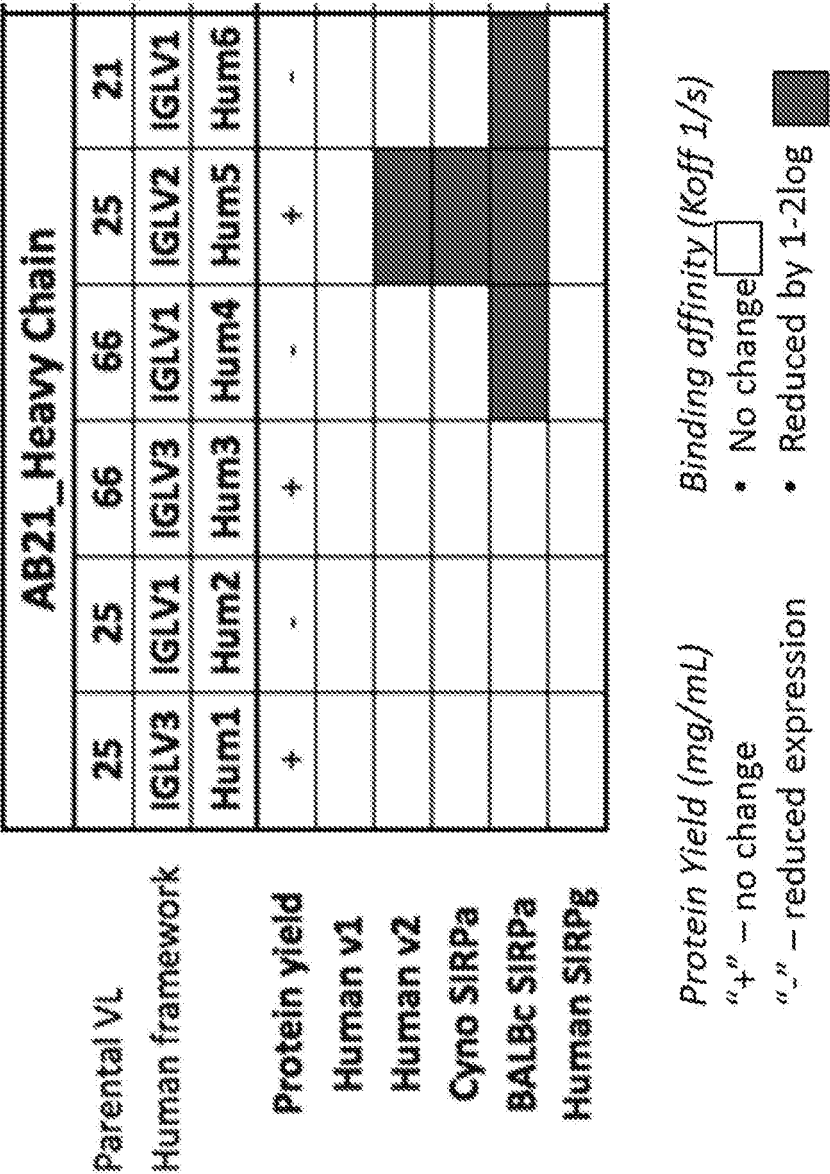


FIG. 2

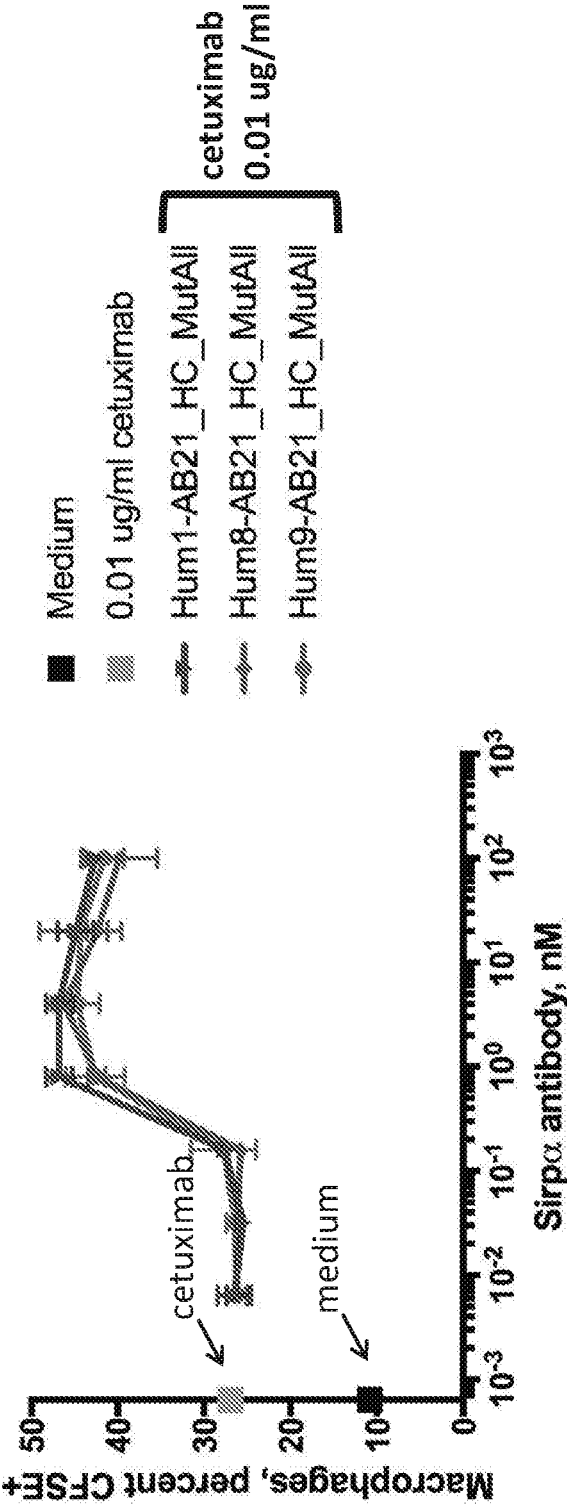


FIG. 3A

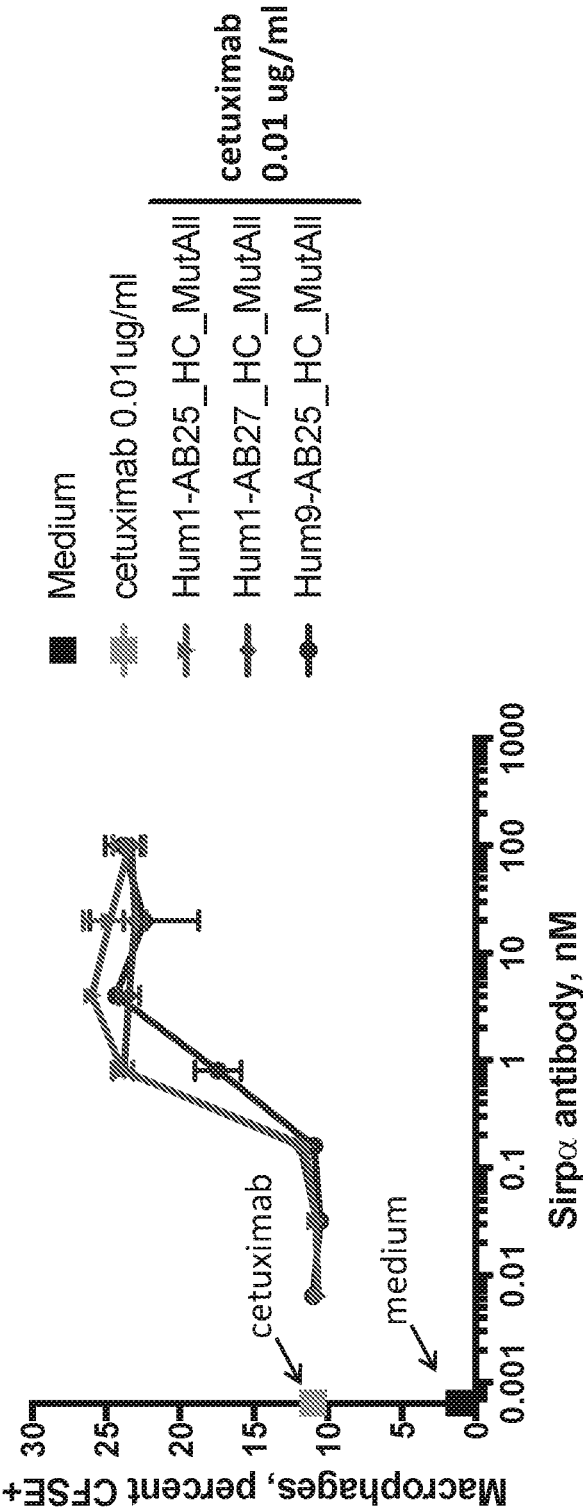


FIG. 3B

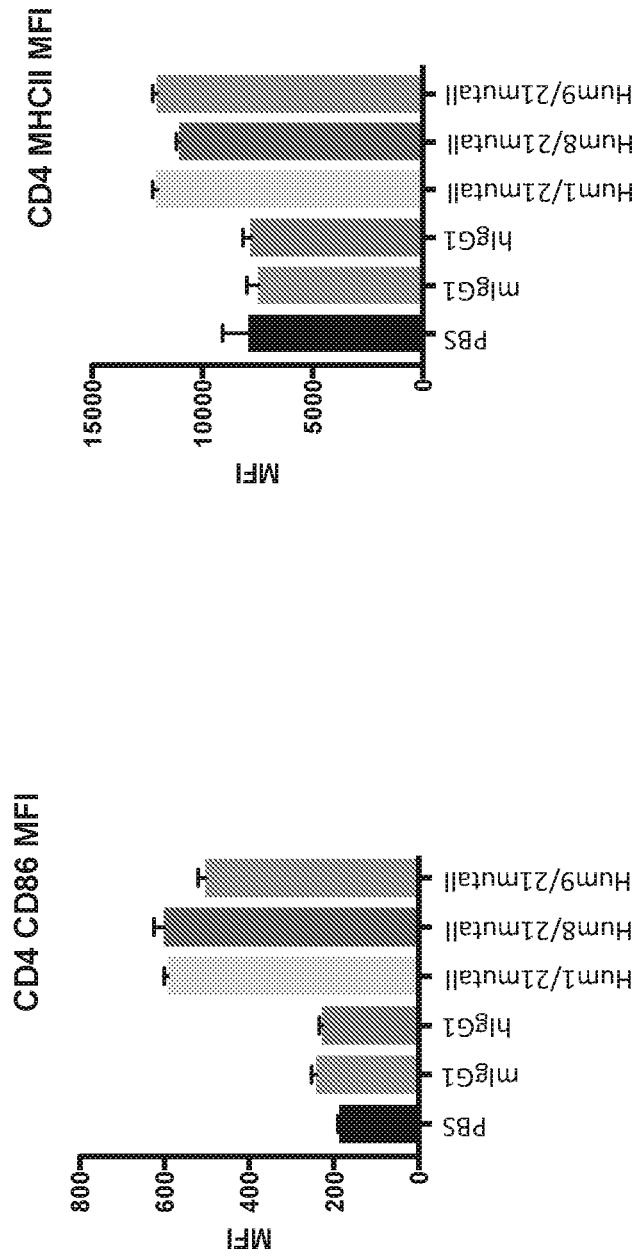


FIG. 4A

FIG. 4B

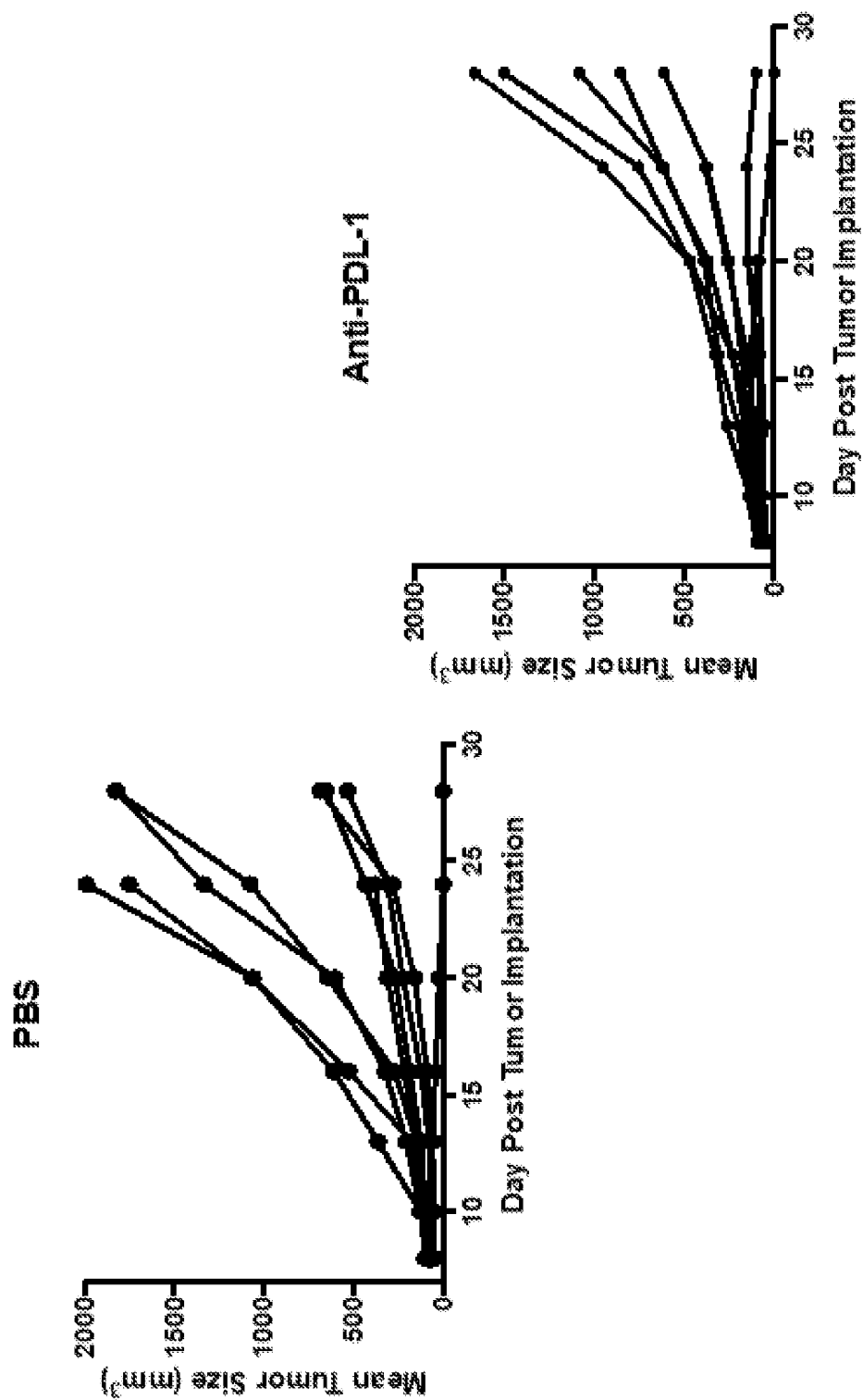


FIG. 5

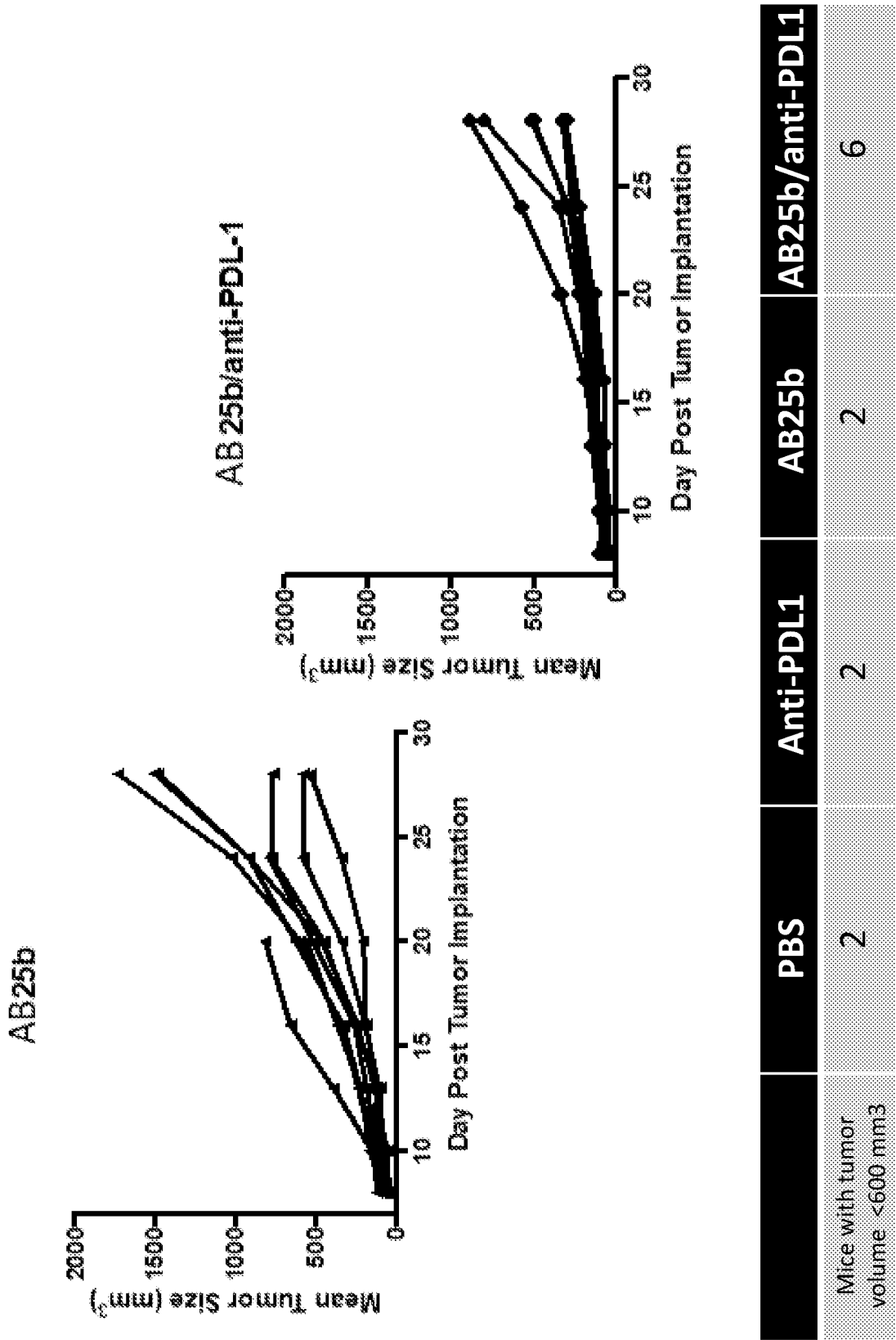


FIG. 5 (cont.'d)

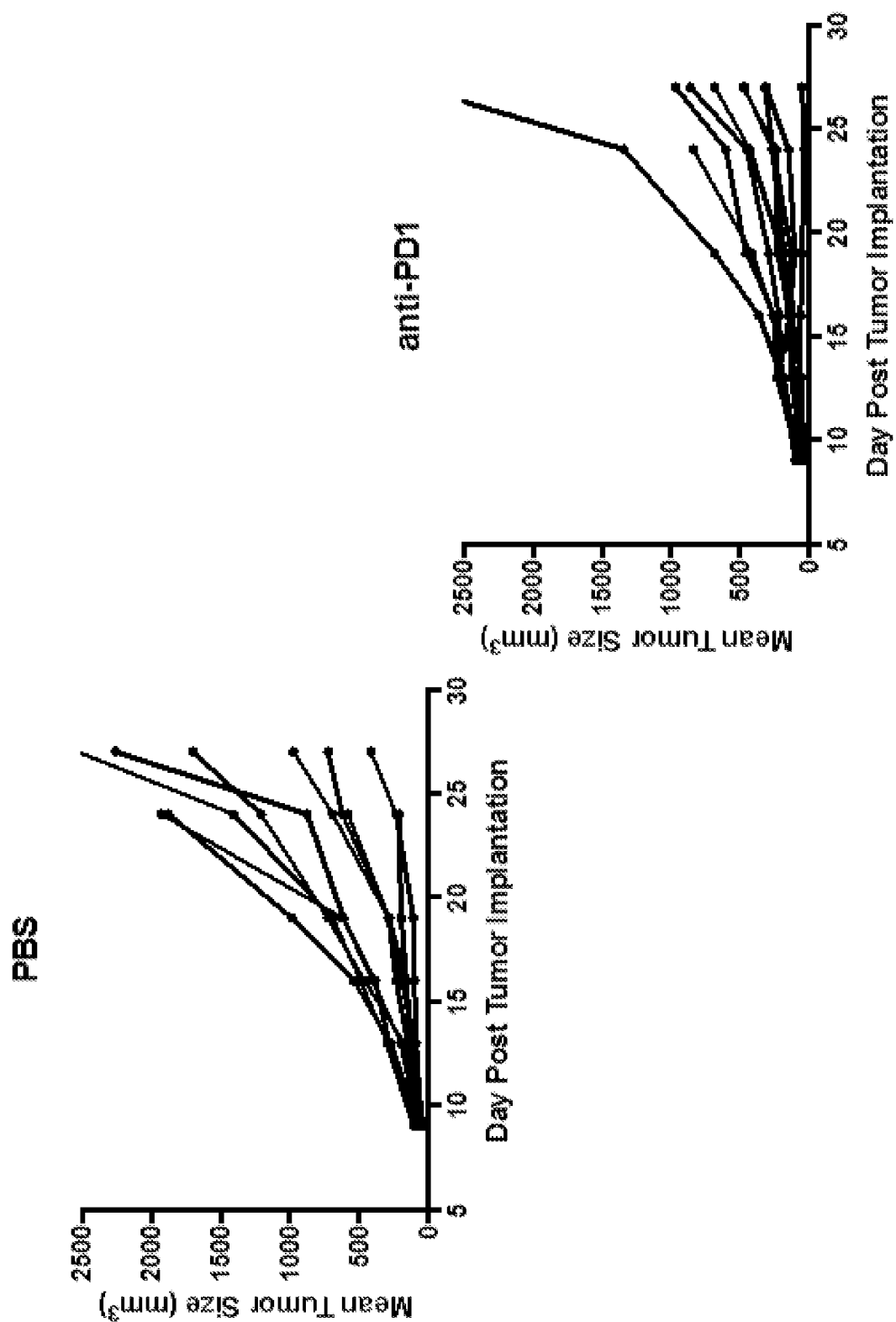


FIG. 6

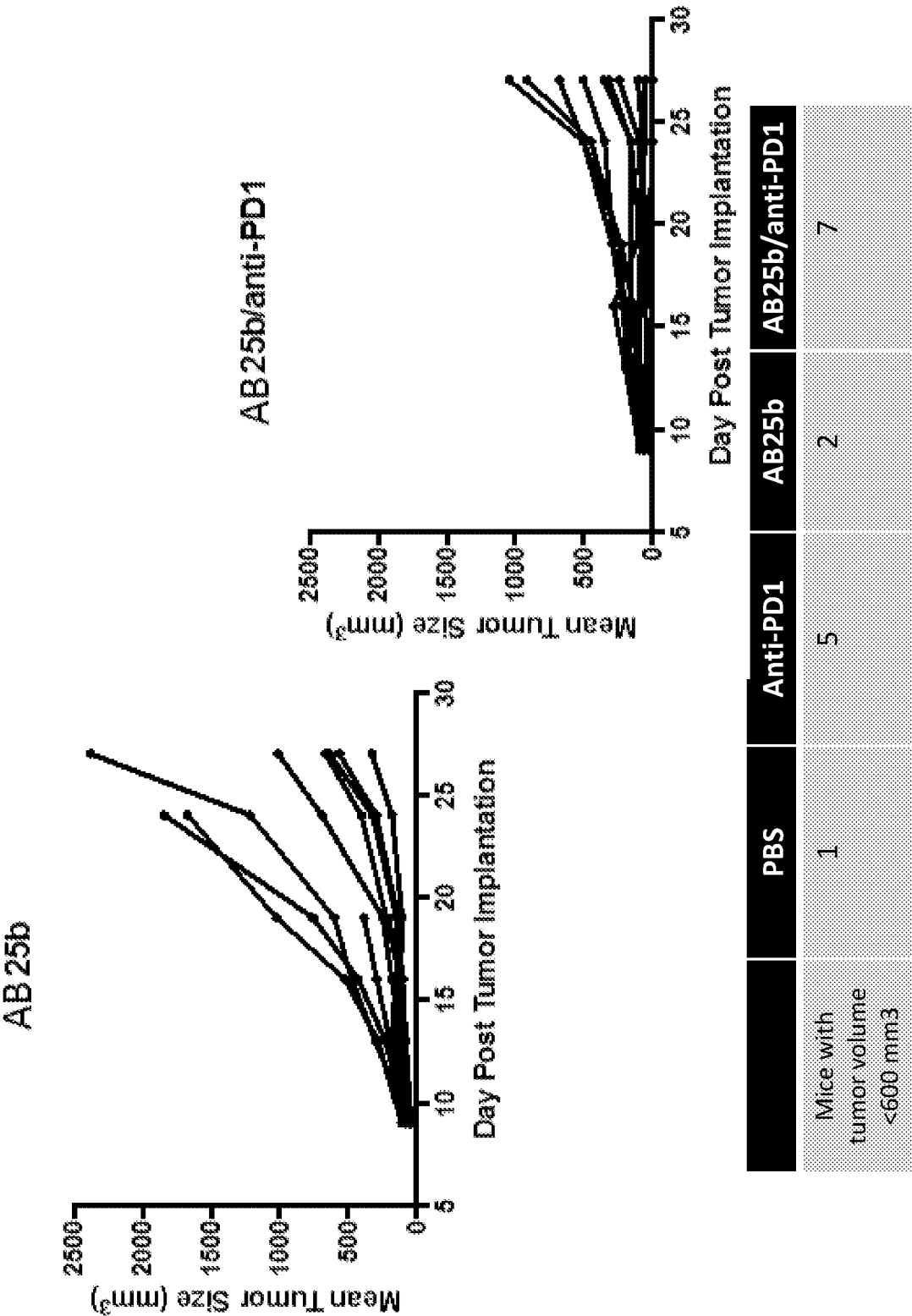


FIG. 6 (cont.'d)

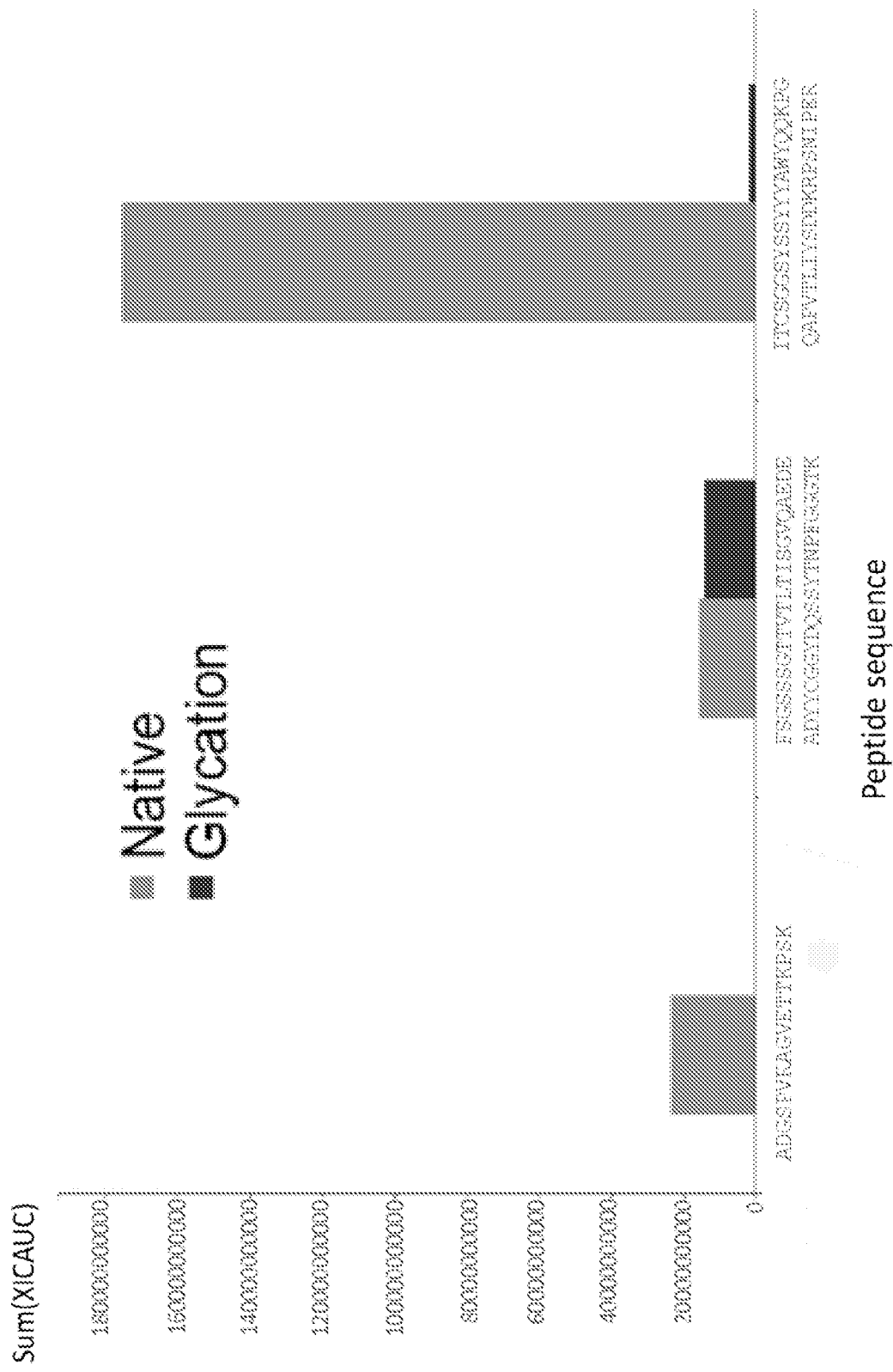


FIG. 7

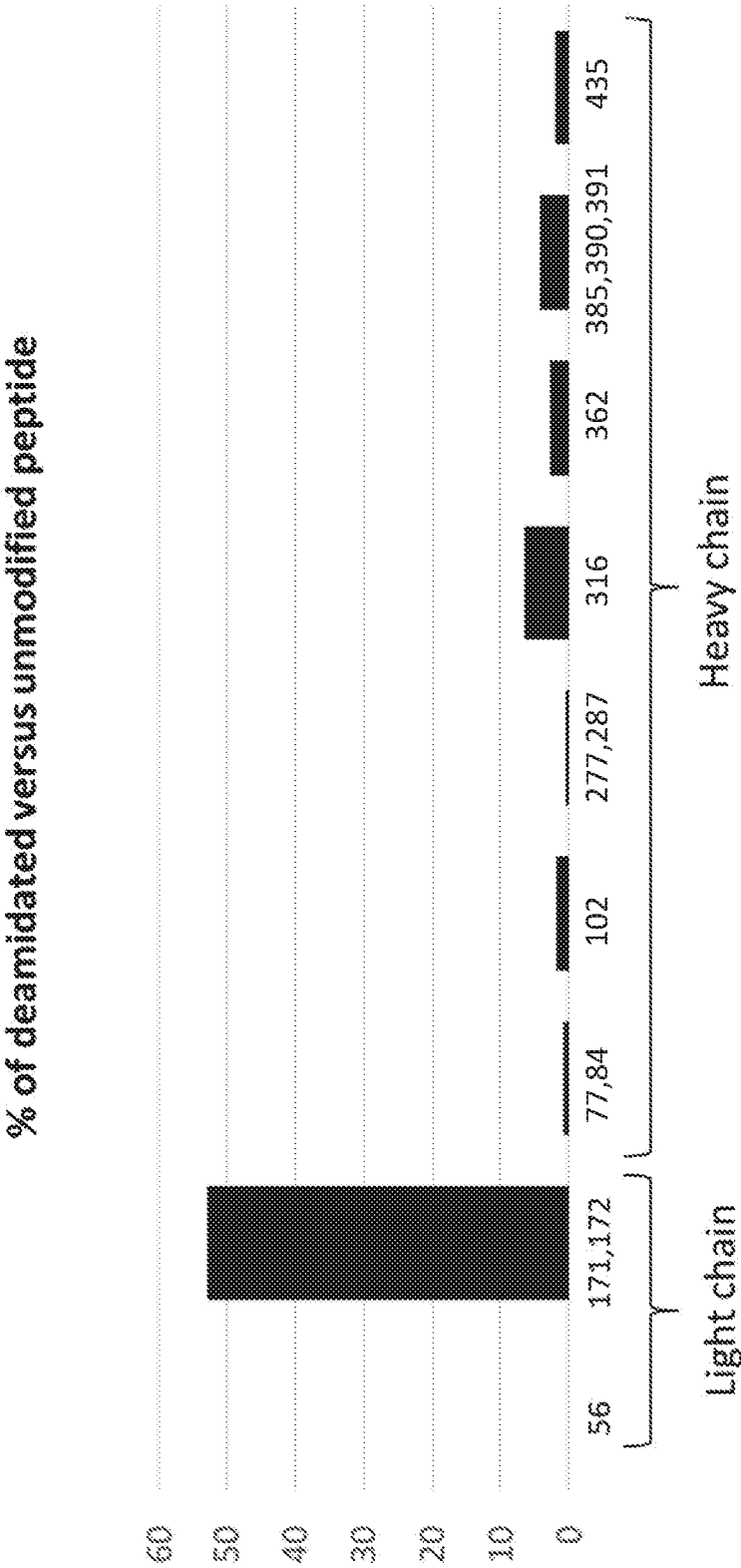


FIG. 8

Proposed engineering

Original - EGGTKLTVL identical to IGLJ2
Version 1 - EGTGTKVTVL identical to IGLJ1
Version 2 - EGGTQLTVL identical to IGLJ7
Version 3 - EGGTRLTVL

FIG. 9

		L1	
1			43
Hum1	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v1+DS	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v1+SD	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v2+DS	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v2+SD	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v3+DS	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
v3+SD	(1)	SYELTQPPSVSPGQTARITC	SGGSYSSYYAYWYQQKPGQAP
		L2	
44			86
Hum1	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v1+DS	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v1+SD	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v2+DS	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v2+SD	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v3+DS	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
v3+SD	(44)	VTLIYSDDKRPS	NIPERFSGSSSGTTVTLTISGVQAEDEADYY
		L3	
87			129
Hum1	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v1+DS	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v1+SD	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v2+DS	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v2+SD	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v3+DS	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
v3+SD	(87)	CGGYDQSSYTNPF	GGGT ^{K104} LTVLGQPKANPTVTLFPPSSEELQA
			* **

FIG. 10

		130	172
Hum1	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSDNN
v1+DS	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSDS
v1+SD	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSSD
v2+DS	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSDS
v2+SD	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSSD
v3+DS	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSDS
v3+SD	(130)	NKATLVCLISDFYPGA	VTVAWKADGSPVKAGVETTKPSKQSSD
			**
		173	214
Hum1	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v1+DS	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v1+SD	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v2+DS	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v2+SD	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v3+DS	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	
v3+SD	(173)	KYAASSYLSLTPEQWKSHRSYSCQVTHEGSTVEKTVAPTECS	

FIG. 11

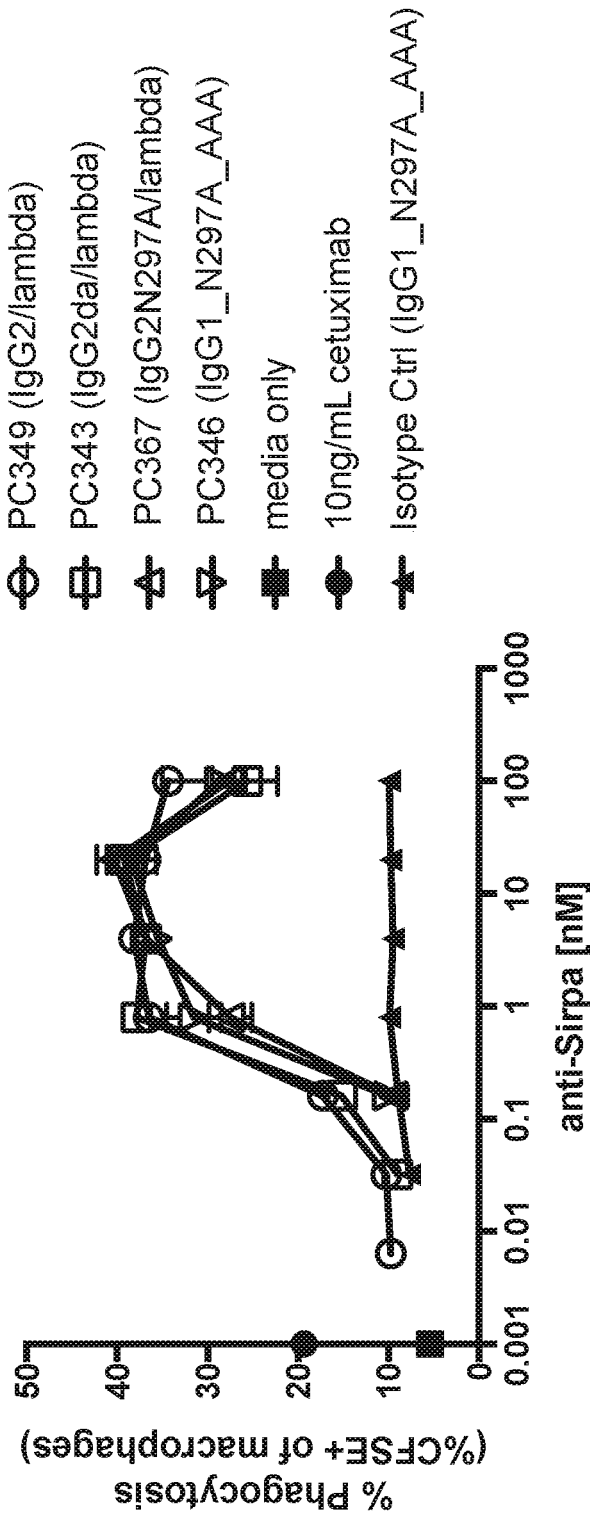


FIG. 12

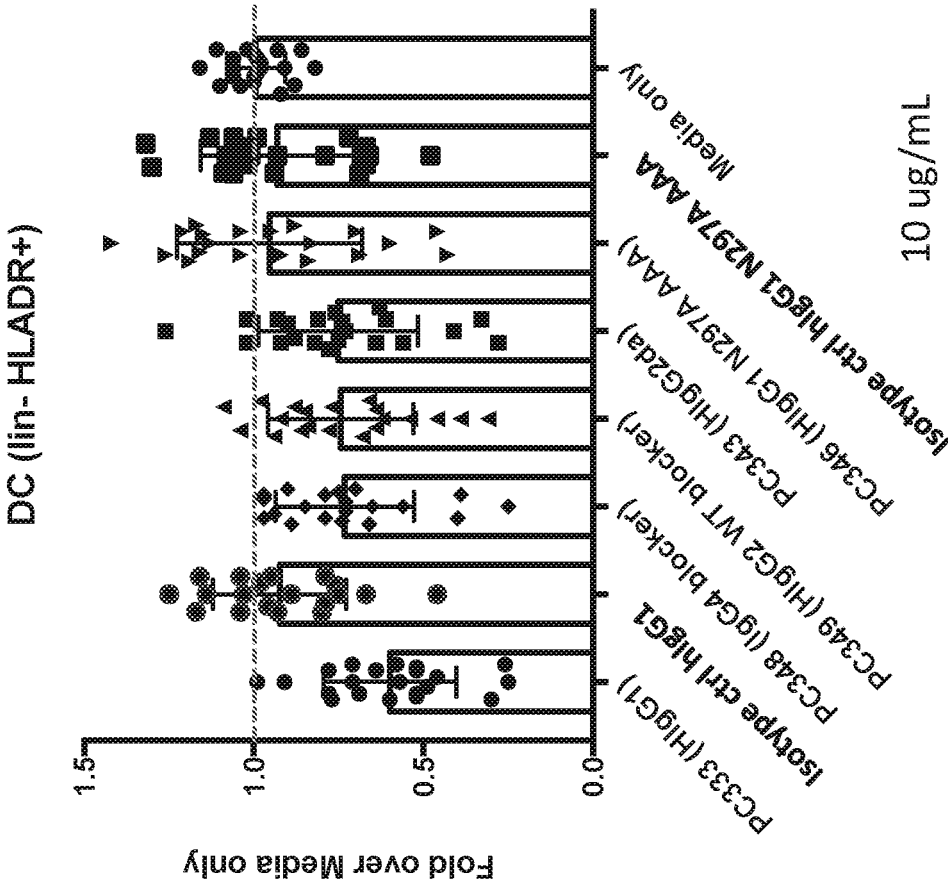


FIG. 13A

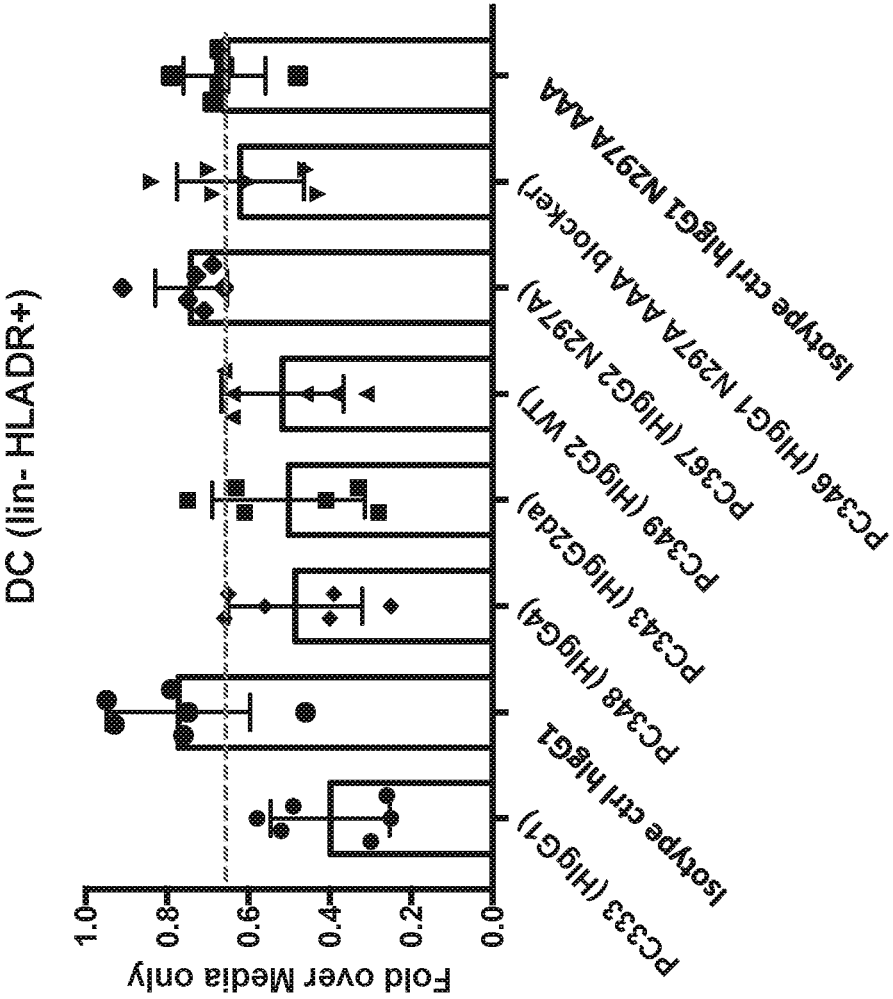


FIG. 13B

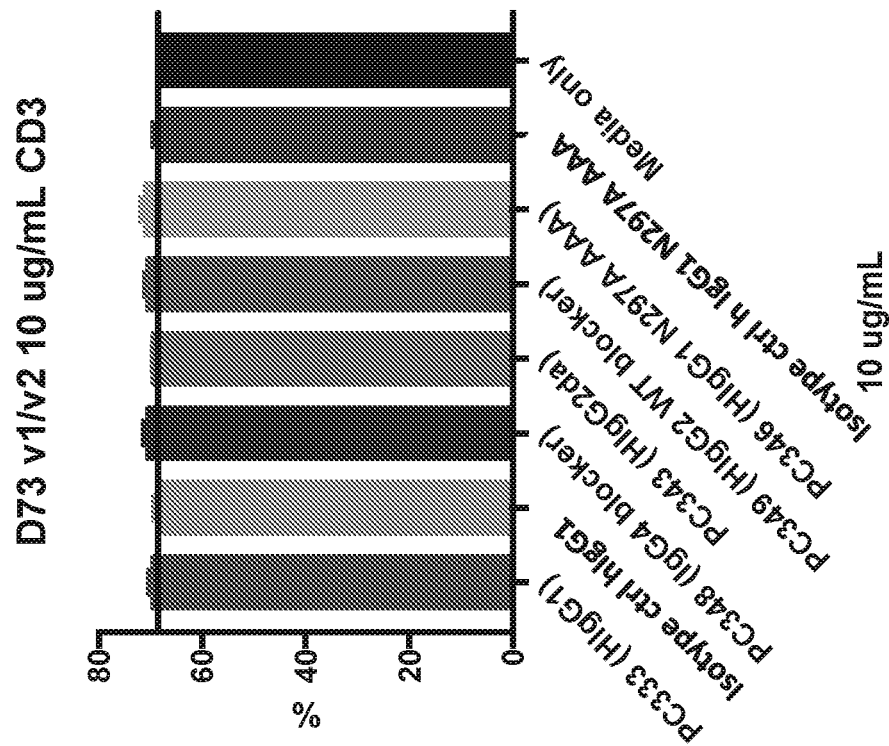


FIG. 13C

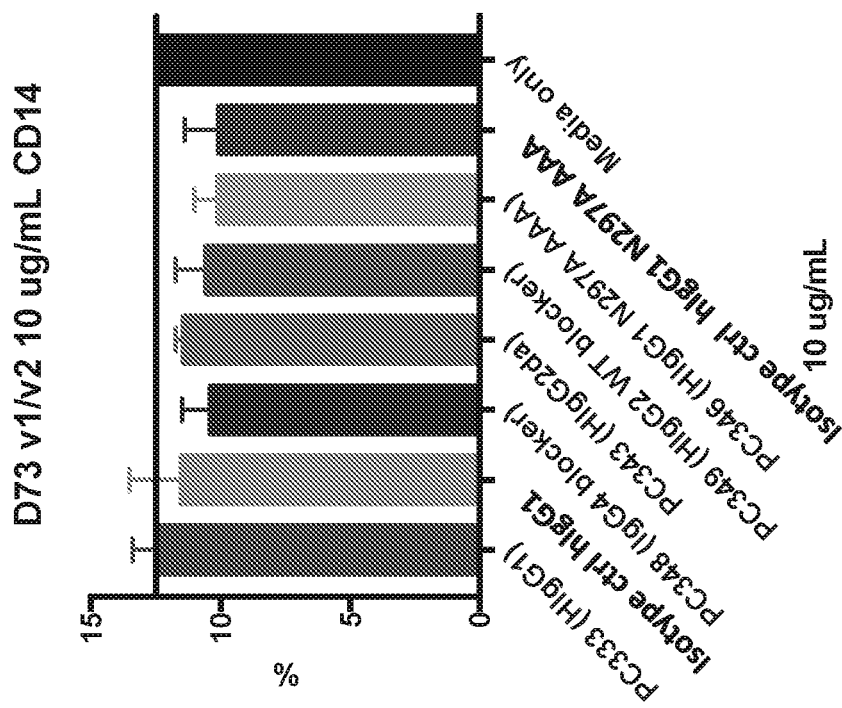


FIG. 13D

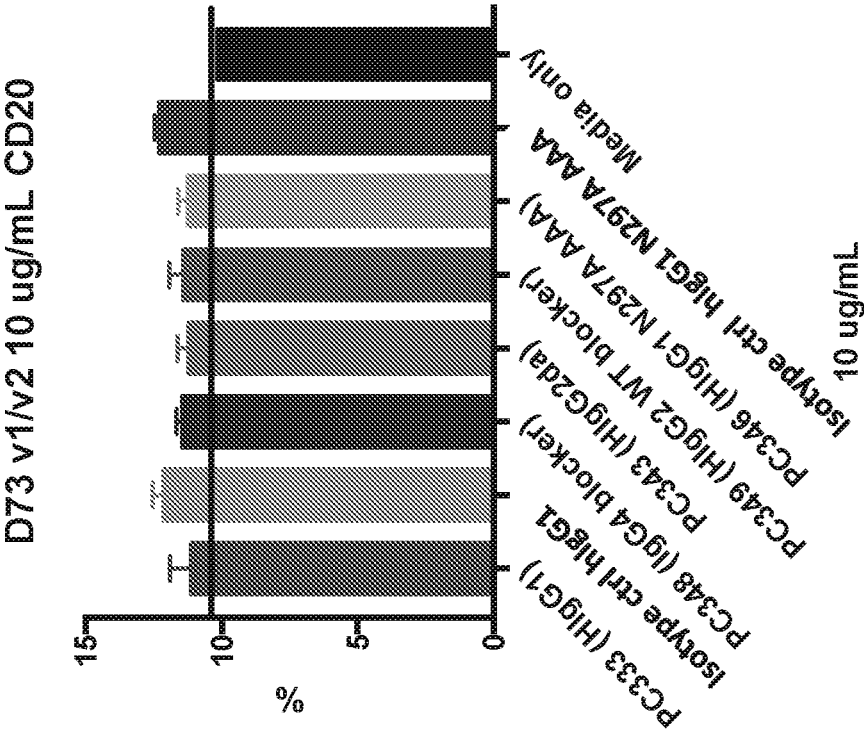


FIG. 13E

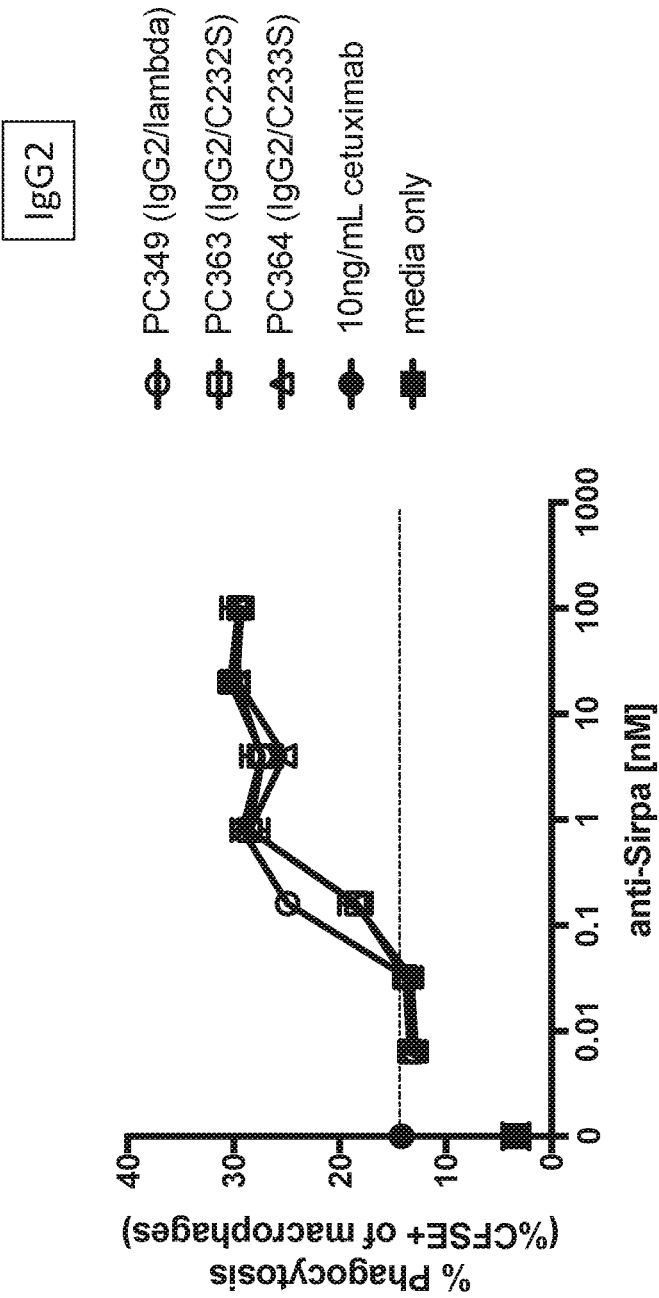


FIG. 14A

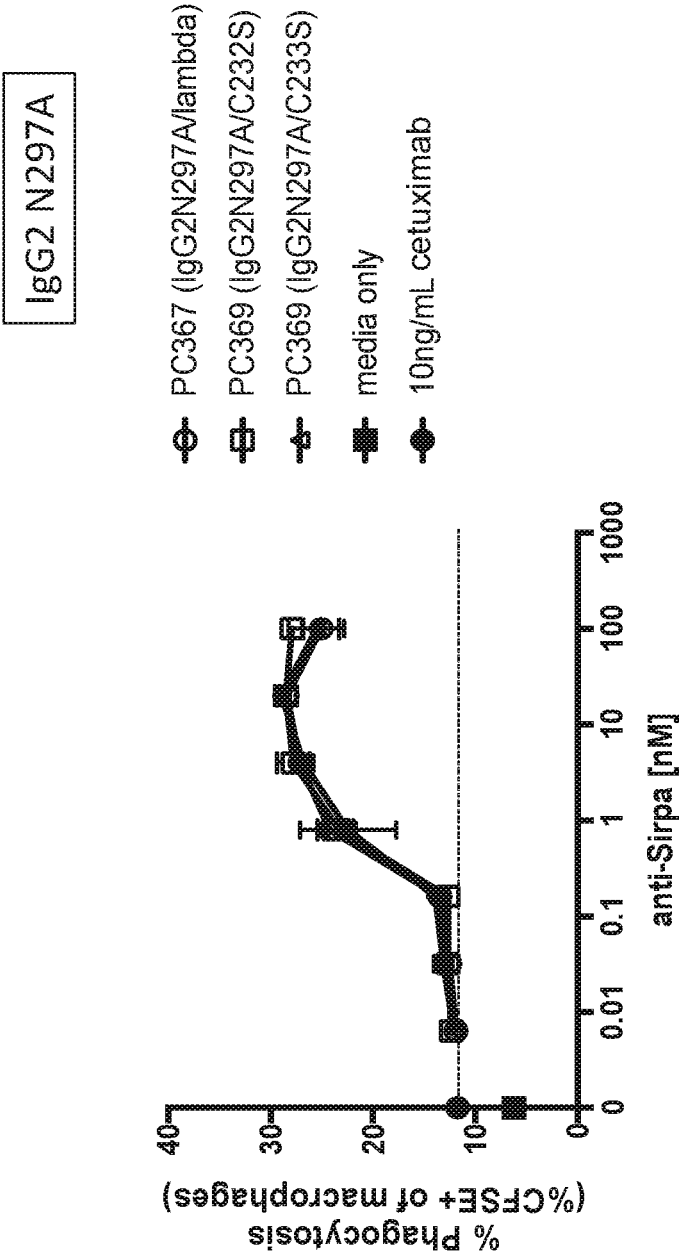


FIG. 14B

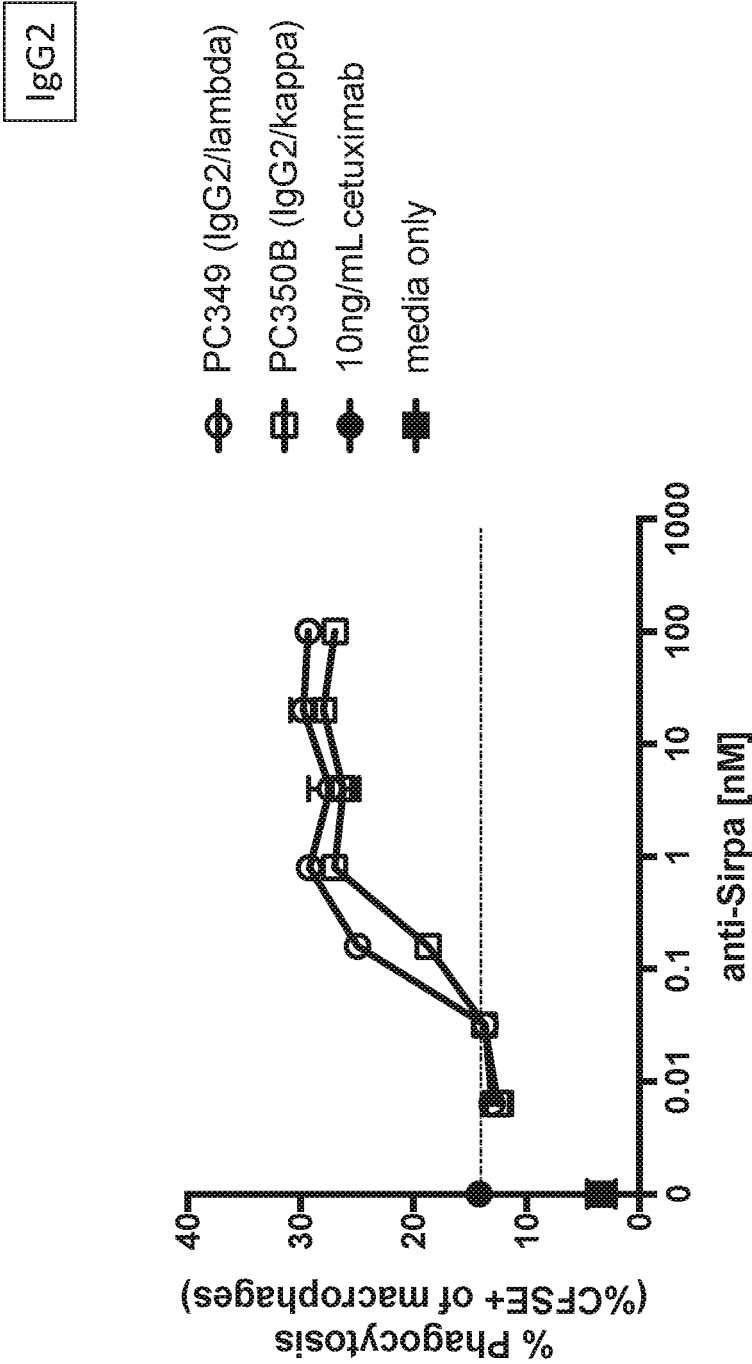


FIG. 15A

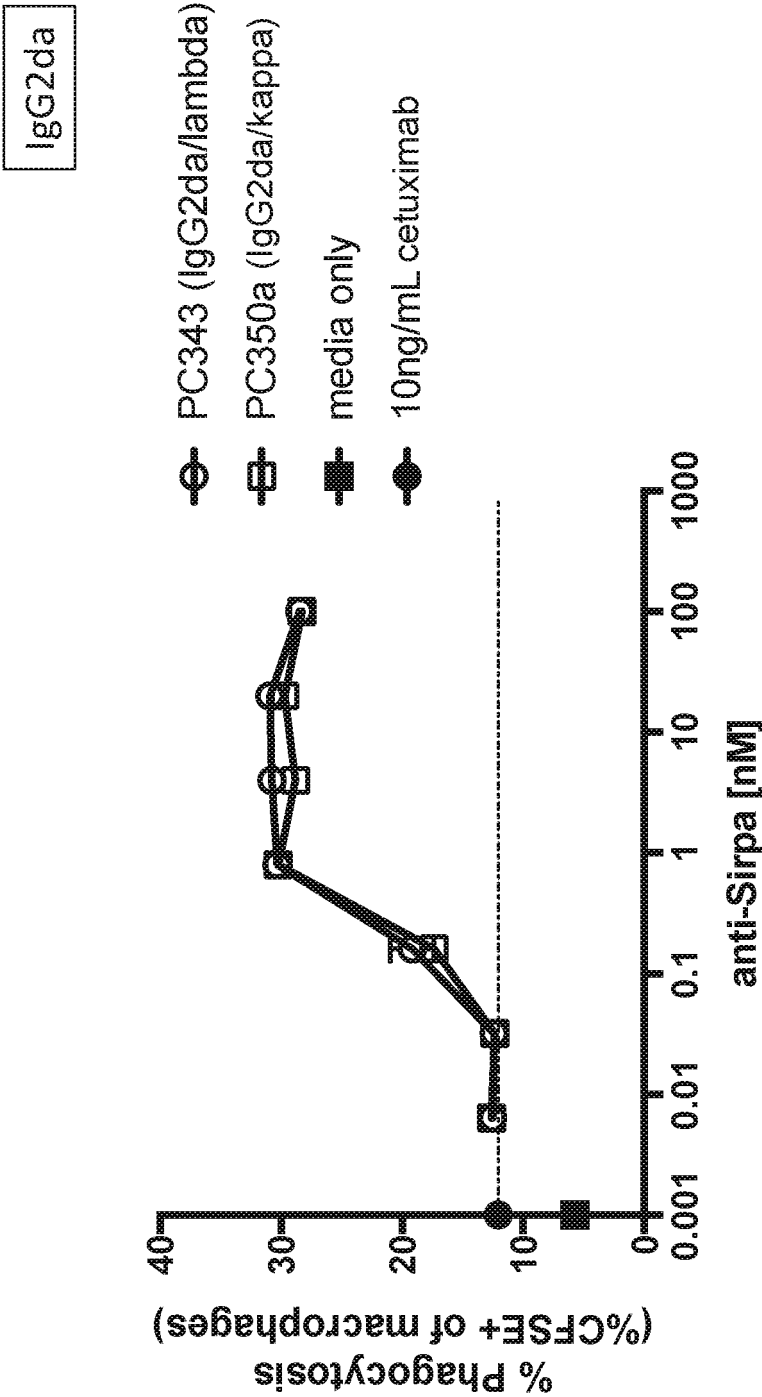


FIG. 15B