

Figure 1

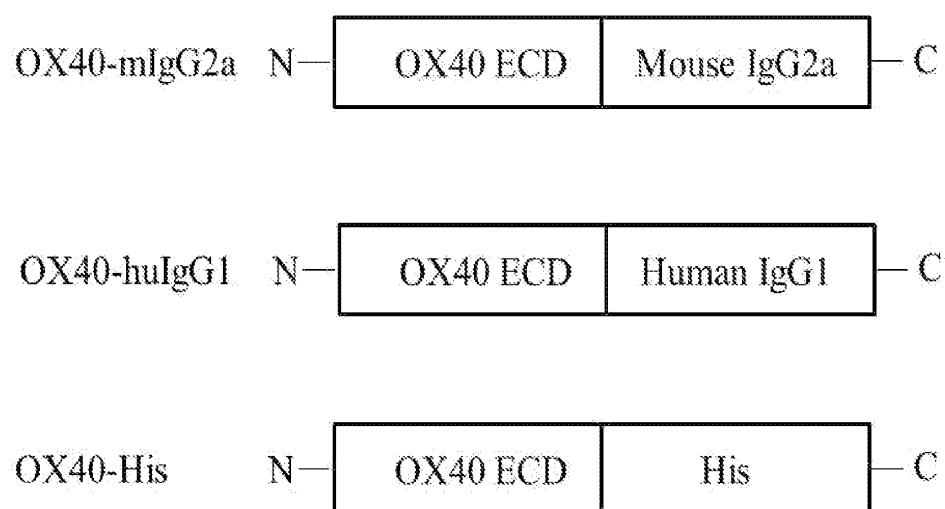


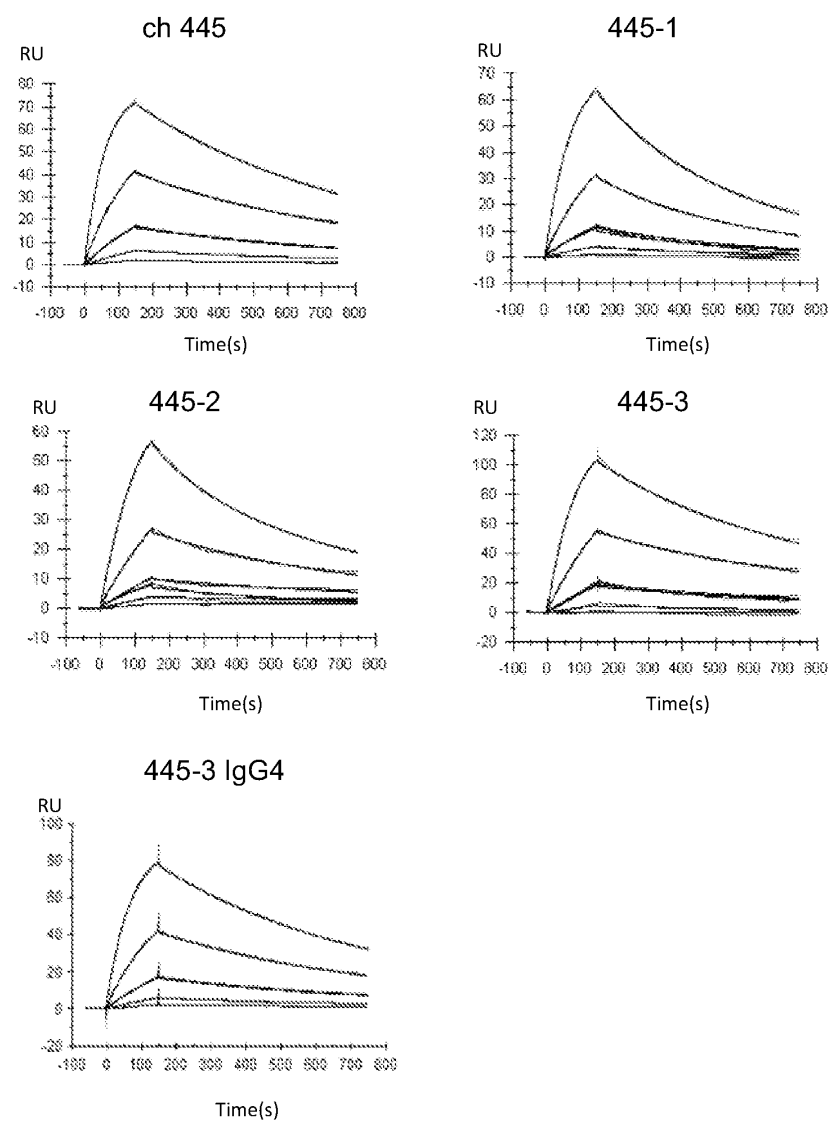
Figure 2

Figure 3

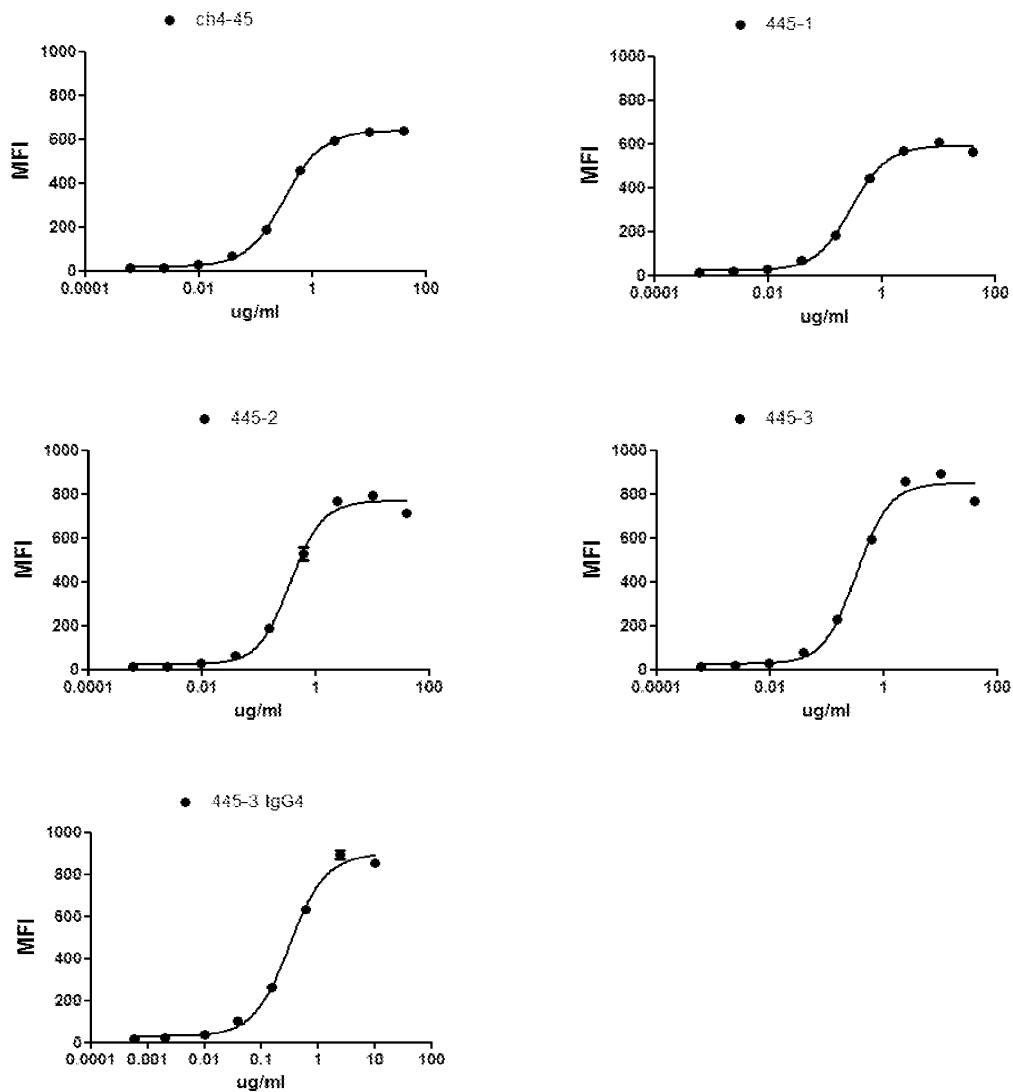


Figure 4

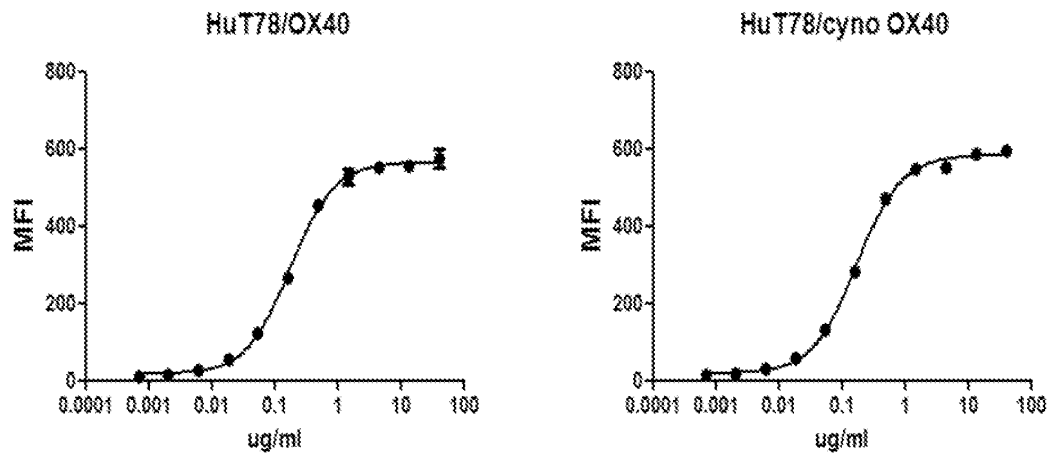


Figure 5

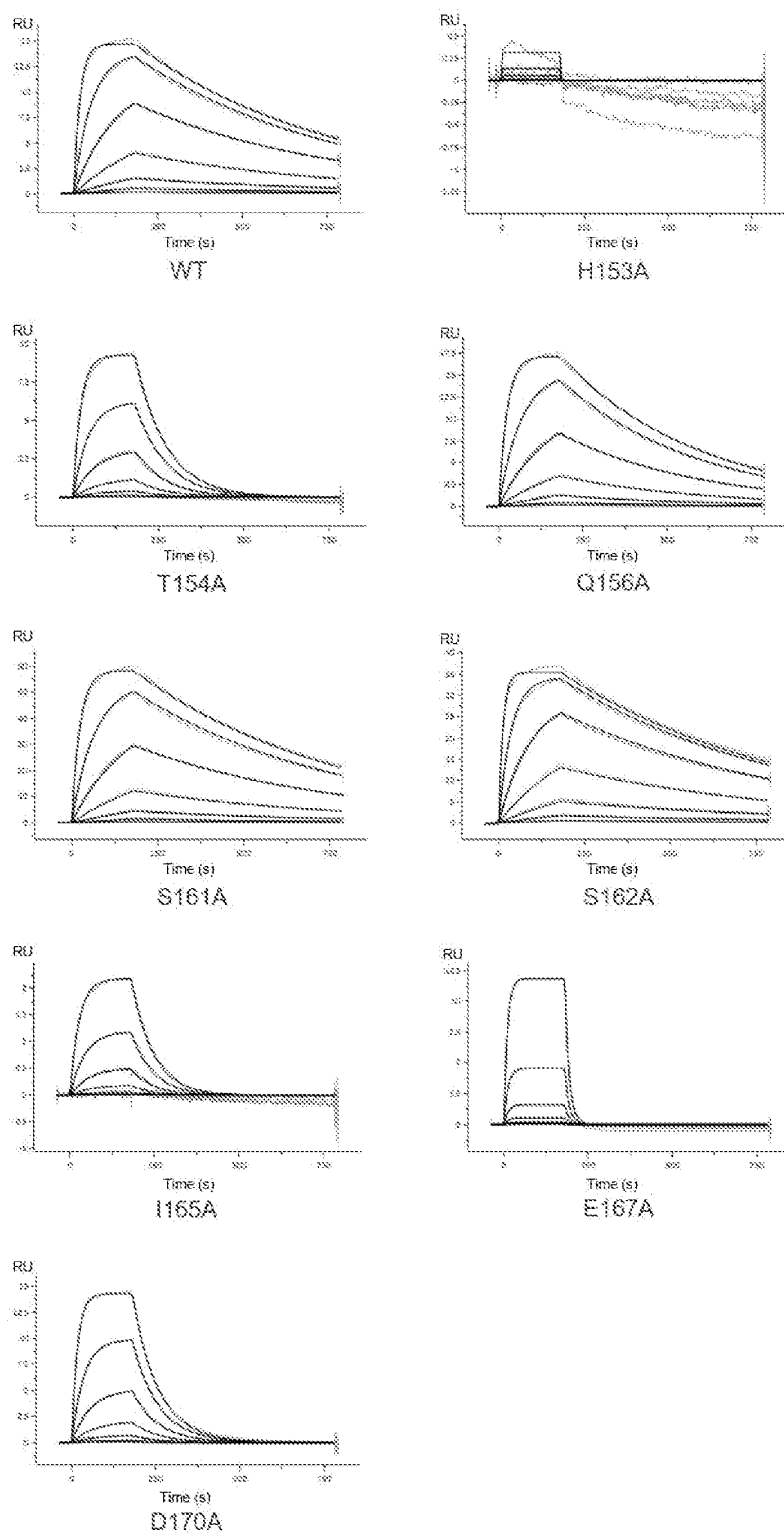


Figure 6

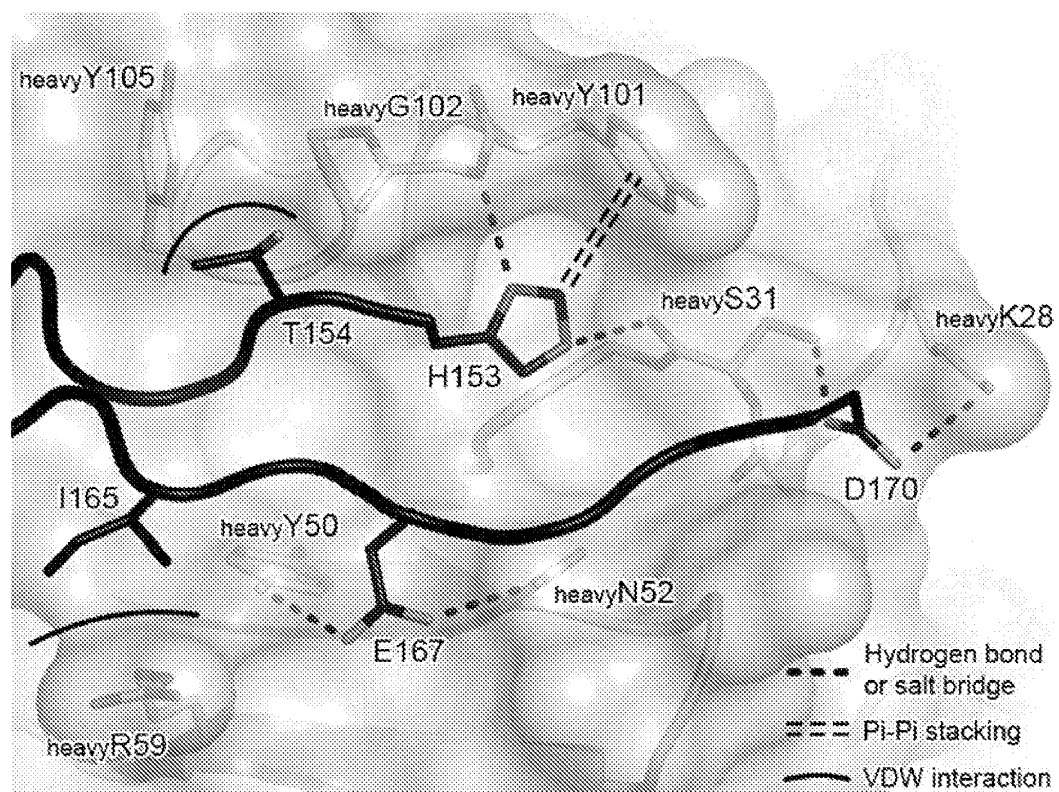


Figure 7

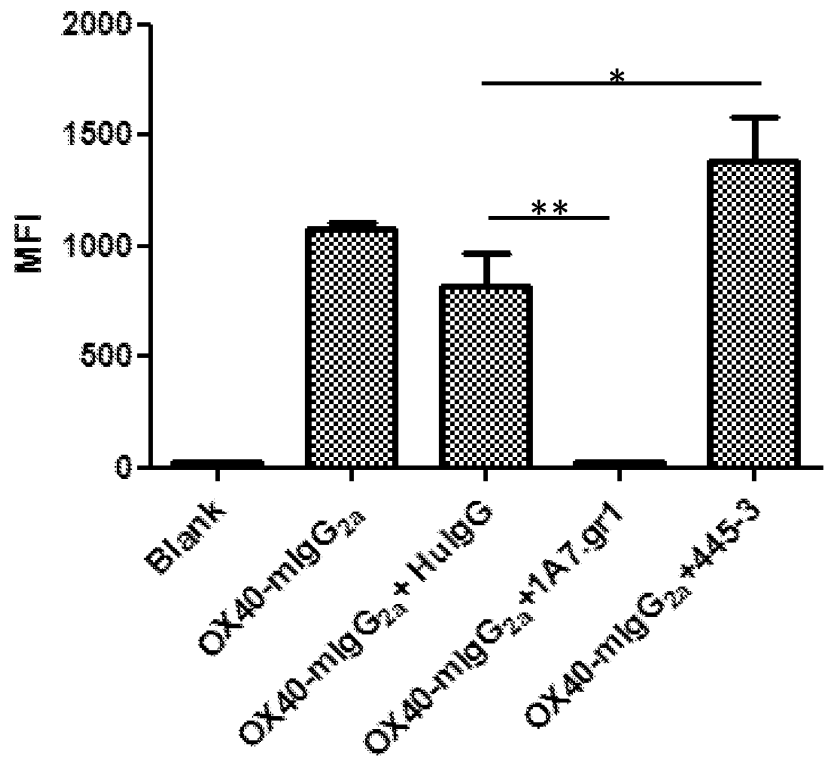


Figure 8

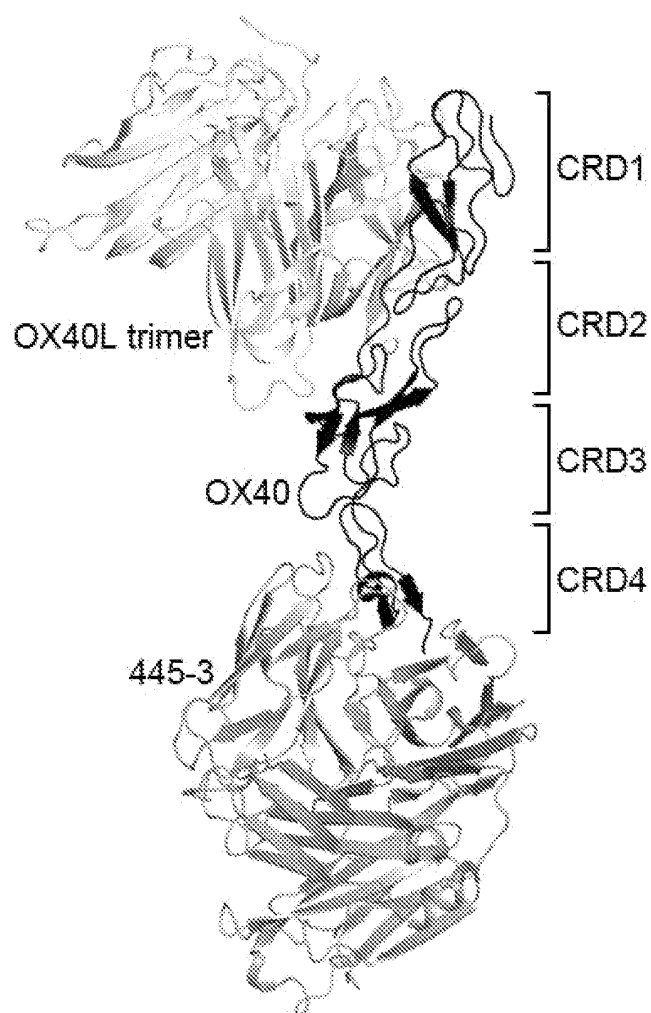


Figure 9A-B

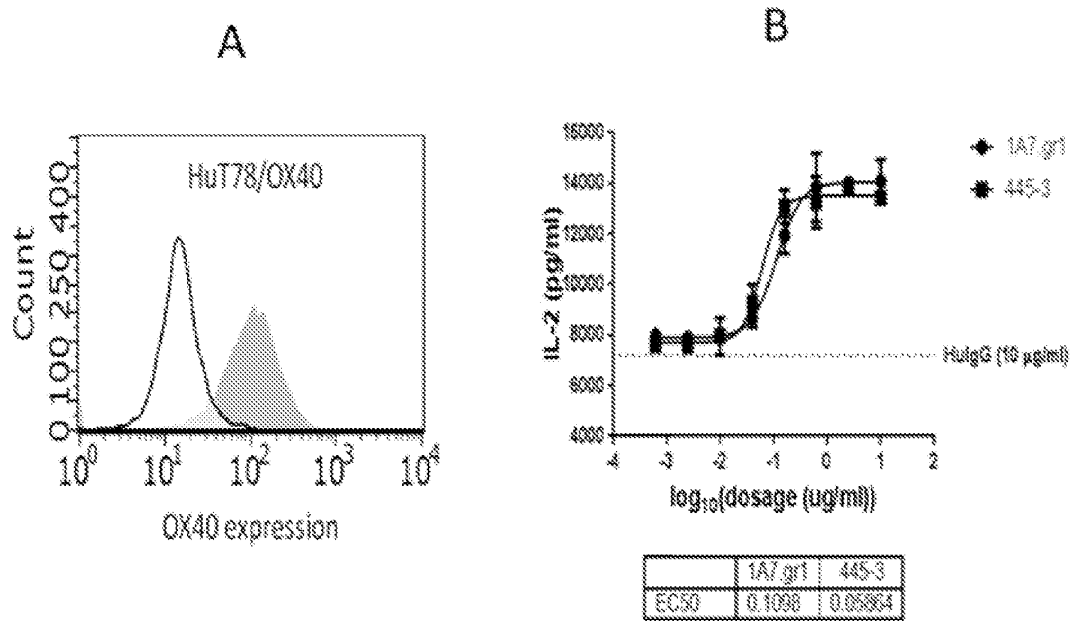


Figure 10

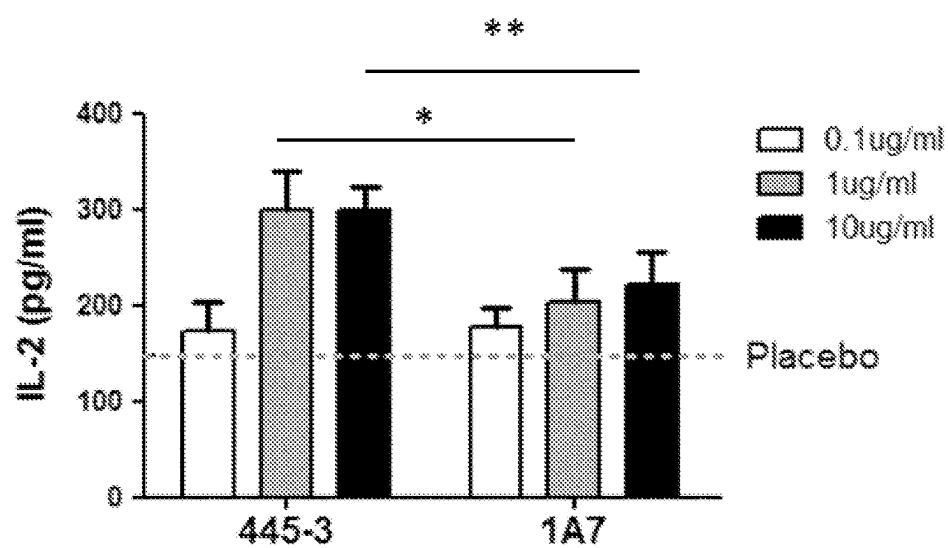
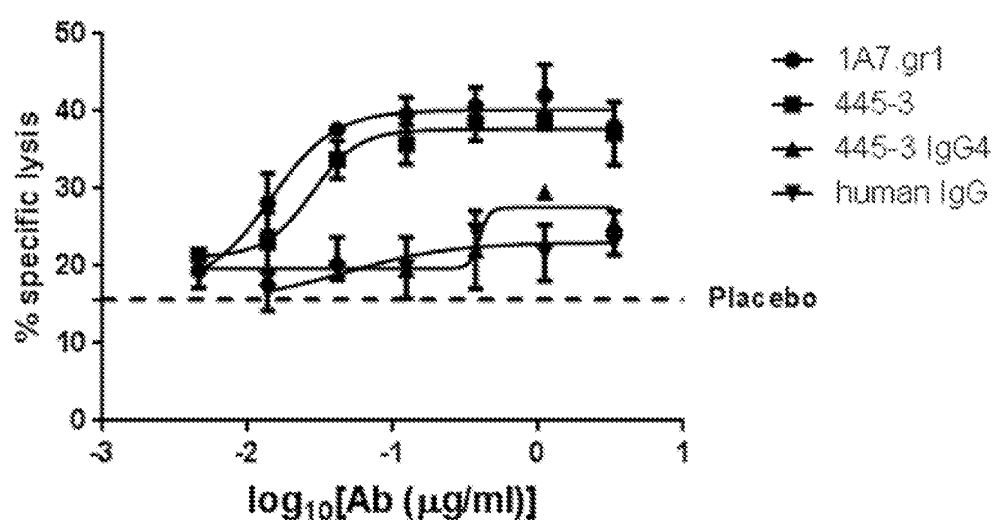


Figure 11



	1A7.gr1	445-3
EC50	0.01441	0.02754

Figure 12A-12C

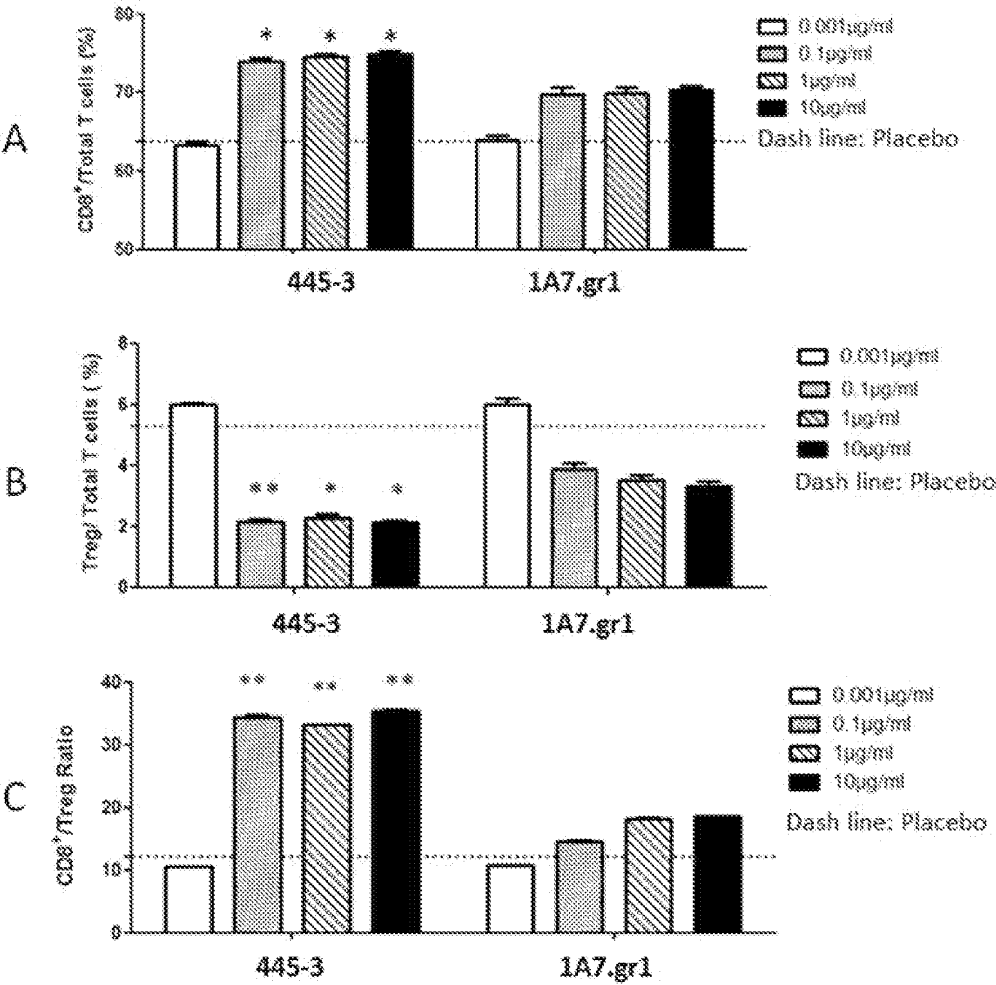


Figure 13A

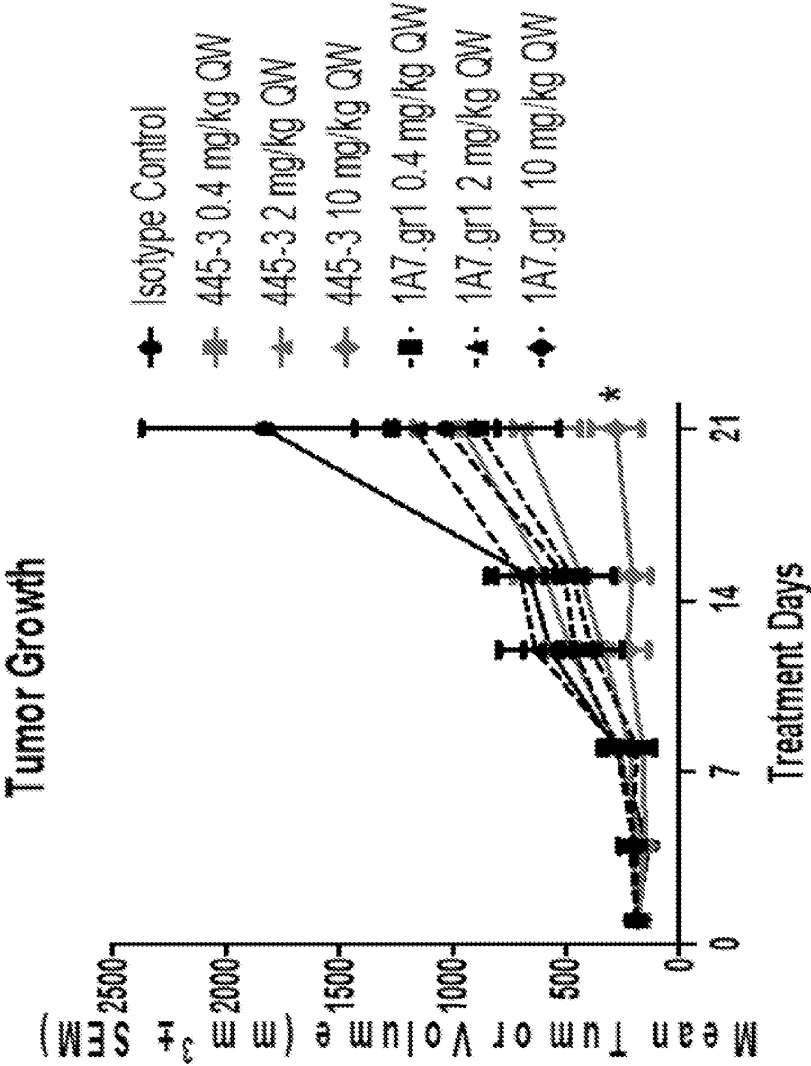


Figure 13B

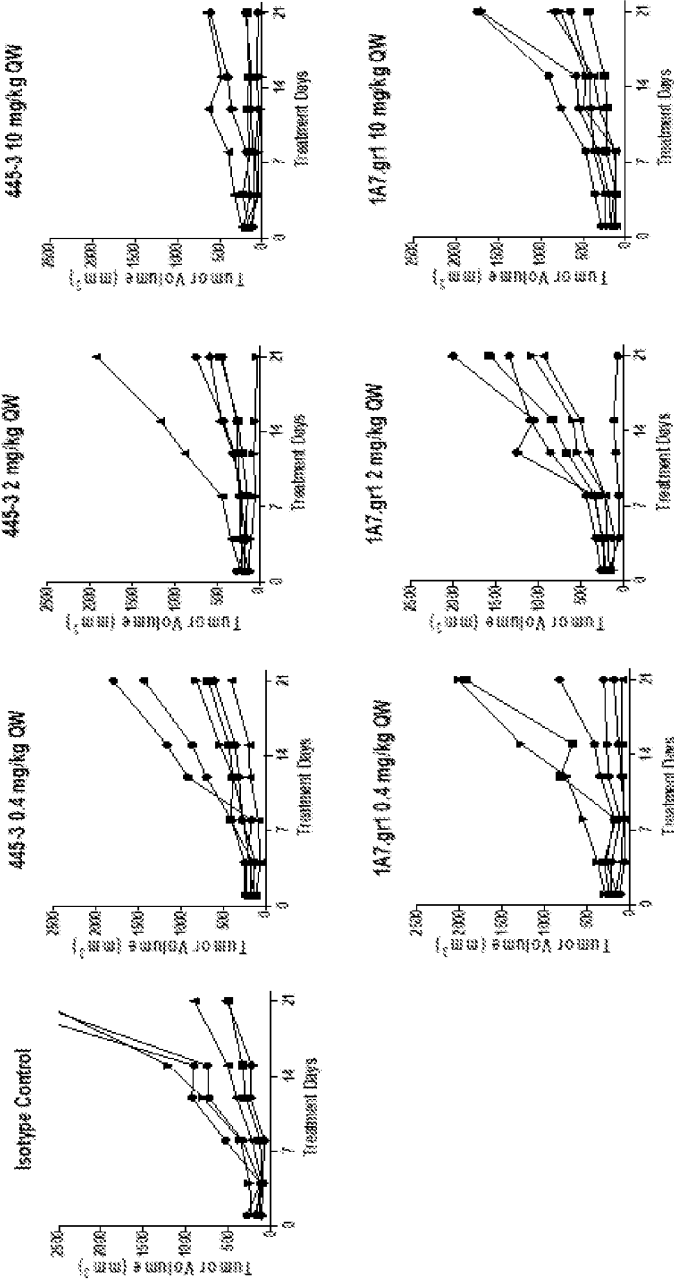


Figure 14A

Heavy chain		Light chain		Co-transfection with heavy chain and light chain	FACS		Biacore		
ID	CDR/FR	ID	CDR/FR		HC ₅₀ (ng/ml)	Top(MFI)	K _a (M ⁻¹ s ⁻¹)	k _d (s ⁻¹)	K _D (M)
445-1VH	-	445-1VL	-	445-1	336	500	2.37E+05	3.89E-03	1.64E-08
445-1VH-M48I	FR2	445-1VL	-	445-2(M48I)-1 (445-1 with M48I mutation on VH)	353	480	2.30E+05	3.56E-03	1.55E-08
445-1VH	-	445-1VL-S24G	CDRI	445-1-2(S24G) (445-1 with S24G mutation on VL)	307	470	2.22E+05	3.60E-03	1.62E-08
445-1VH	-	445-1VL-S10T/ES1D/D70E	FR1/FR3	445-1-2(S10T/ES1D/D70E) (445-1 with S10T, E81D and D70E mutations on VL)	280	510	2.28E+05	3.40E-03	1.49E-08

Figure 14B

Heavy chain		Light chain		Co-transfection with heavy chain and light chain	FACS		Biacore			
ID	CDR/FR	ID	CDR/FR		Ab ID	EC ₅₀ (ng/ml)	Top(MFI)	k _a (M ⁻¹ s ⁻¹)	k _d (s ⁻¹)	K _D (M)
445-2VH	-	445-3VL	-	445-2		397	760	2.06E-05	2.64E-03	1.28E-08
445-2VH-Q62E-Q65K	CDR2	445-2VL-S24R	CDR1	445-3(Q62E/Q65K)-3(S24R) (445-2 with Q62E and Q65K mutations on VH and S24R mutation on VL)		313	790	1.87E-05	2.32E-03	1.24E-08
445-2VH-Q62E	CDR2	445-2VL-S24R	CDR1	445-3(Q62E)-3(S24R) (445-2 with Q62E mutation on VH and S24R mutation on VL)		363	760	1.94E-05	2.27E-03	1.17E-08
445-2VH-K28T	FR1	445-2VL-S24R	CDR1	445-3(K28T)-3(S24R) (445-2 with K28T mutation on VH and S24R mutation on VL)		660	750	4.44E-05	5.74E-03	1.29E-08
445-2VH-Y27G	FR1	445-2VL-S24R	CDR1	445-3(Y27G)-3(S24R) (445-2 with Y27G mutation on VH and S24R mutation on VL)		755	630	6.25E-04	1.35E-03	2.15E-08
445-2VH-T30S	FR1	445-2VL-S24R	CDR1	445-3(T30S)-3(S24R) (445-2 with T30S mutation on VH and S24R mutation on VL)		405	800	2.91E-05	3.81E-03	1.31E-08
445-3VH	-	445-3VL	-	445-3		462	990	1.74E-05	1.48E-03	8.51E-09
445-2VH-A61N-K28R	CDR2/FR1	445-3VL	-	445-3(A61N-K28R)-3 (445-2 VH with A61N and K28R mutations and 445-3 VL)		369	1080	1.57E-05	1.15E-03	7.35E-09
445-2VH-A61N-K63R	CDR2	445-3VL	-	445-3(A61N-K63R)-3 (445-2 VH with A61N and K63R mutations and 445-3 VL)		483	1100	1.61E-05	1.55E-03	9.65E-09
445-3VH	-	445-2VL-C41D-K42G-S24R-K93R	FR2/CDR1/CDR3	445-3-3(G41D-K42G-S24R-K93R) (445-3 VH and 445-2 VL with G41D, K42G, S24R and K93R mutations)		337	1050	2.12E-05	1.68E-03	7.90E-09