

Figure 1

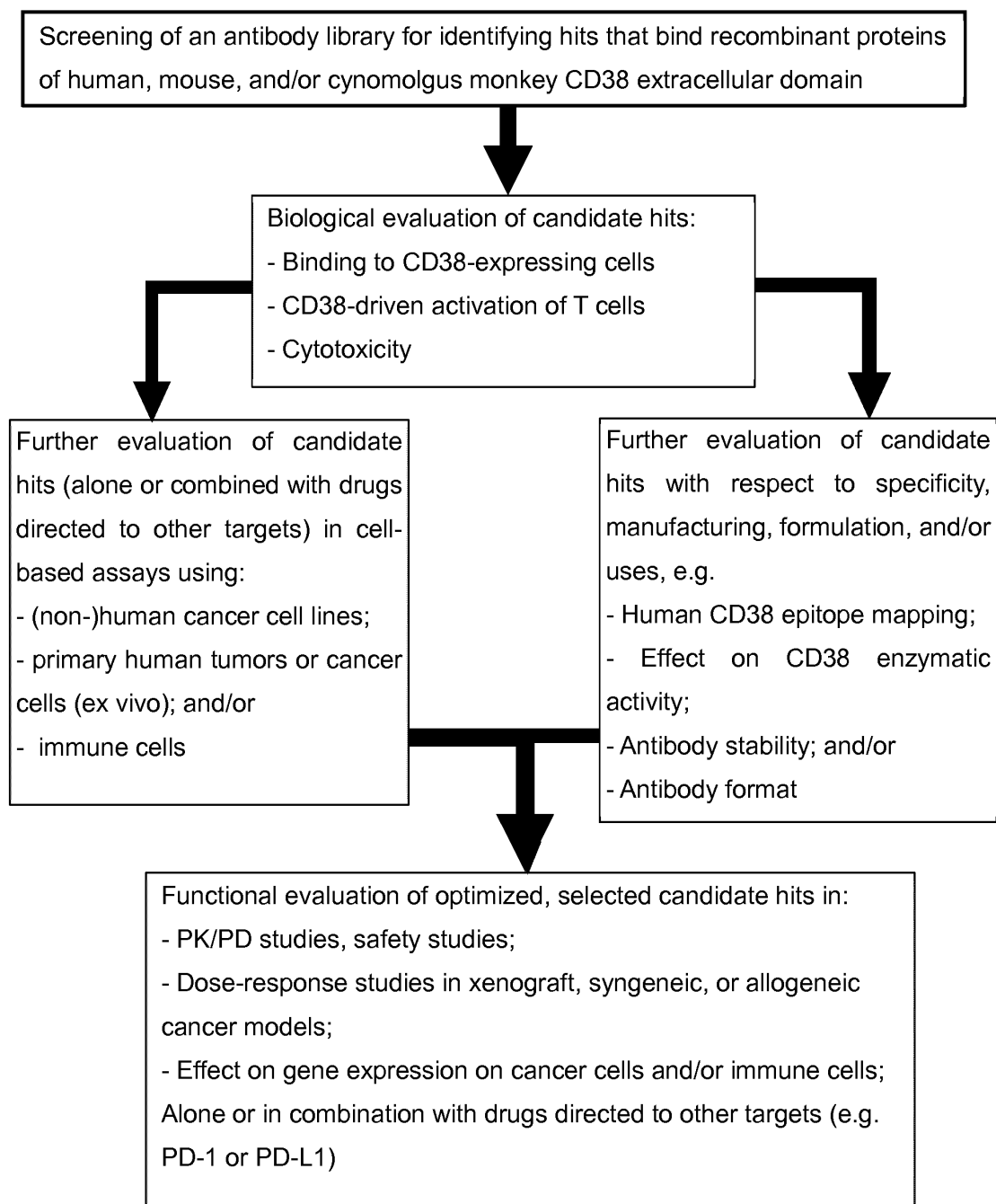


FIGURE 2

A)

aCD38-a-323-HCDR1

GSISSGSYYWS

aCD38-a-323-HCDR123

GSISSGSYYWSWIRQHPGKGLEWIGYIYYSGSTYYNPSLKSRVTISVDTSKNQFSLKLS
SVTAADTAVYYCARGSPYRWYNYYYMDVWGKGTTTVSS

aCD38-a-323-HCDR2

YIYYSGSTYYNPSLKS

aCD38-a-323-LCDR2

DASSLES

aCD38-a-323-HCDR3

ARGSPYRWYNYYYMDV

aCD38-a-323-LCDR3

QQHRSYPPT

aCD38-a-323-LCDR123

RASQSISSWLAWYQQKPGKAPKLLIYDASSLESGVPSRFSGSGSGTEFTLTISLQPD
DFATYYCQQHRSYPPTFGGGTKVEIK

FIGURE 3

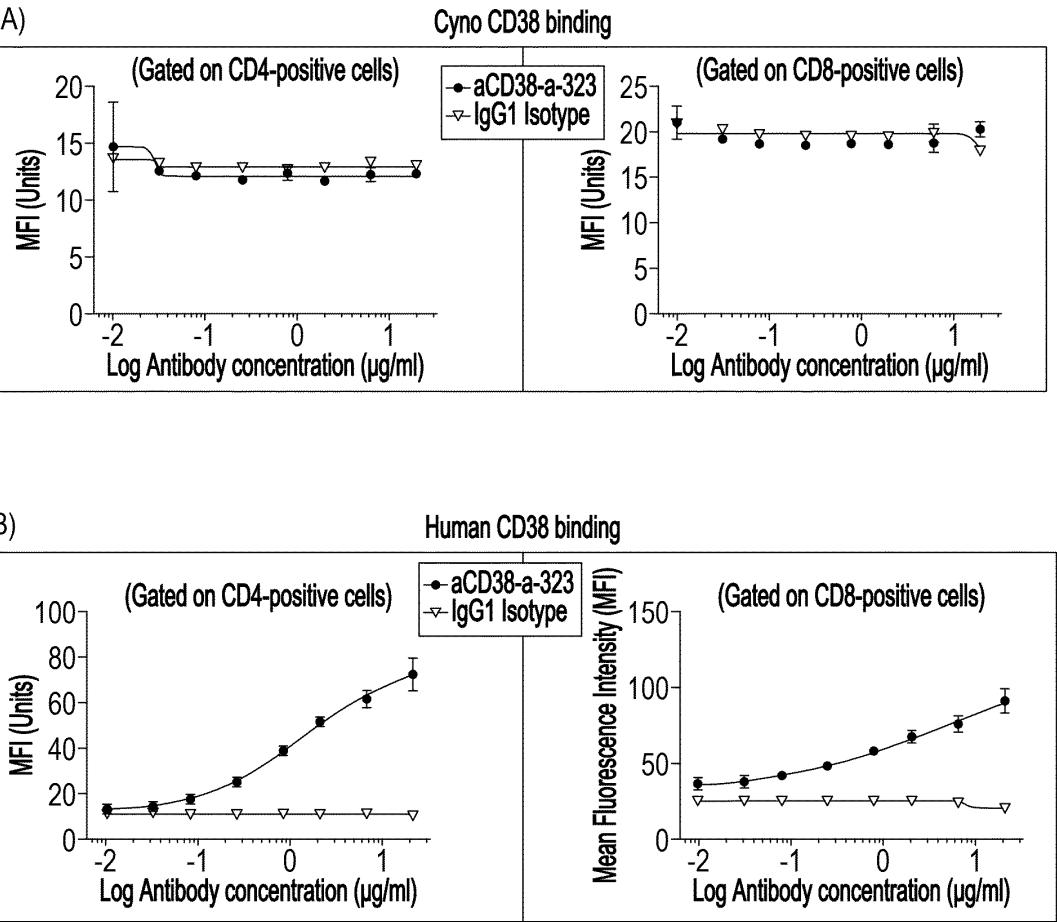


FIGURE 4

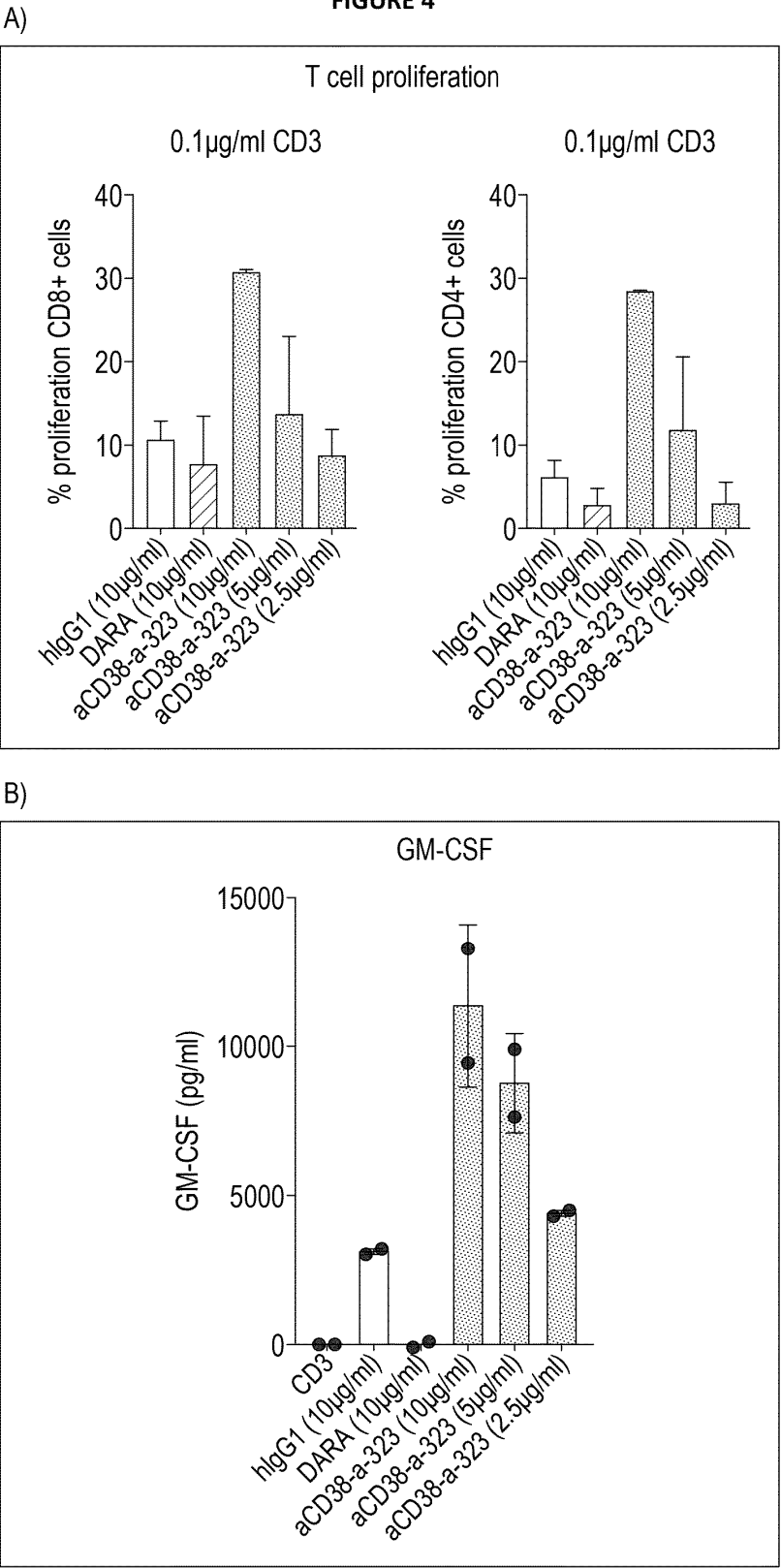


FIGURE 5

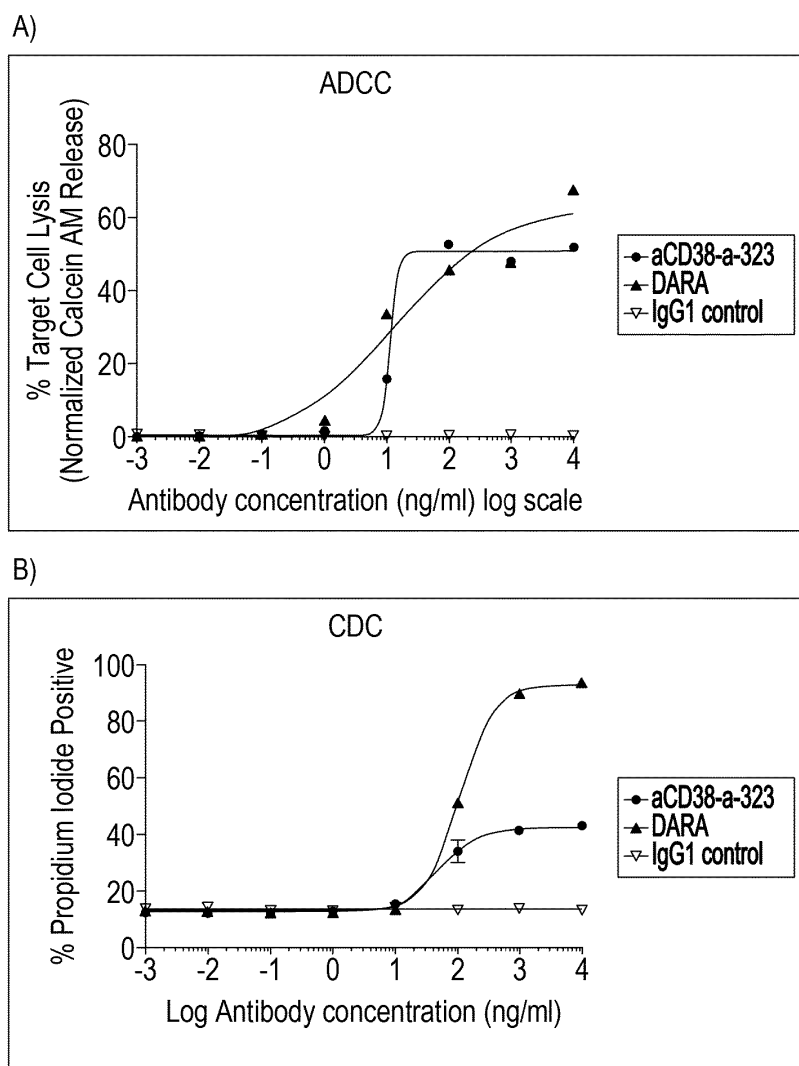


FIGURE 6

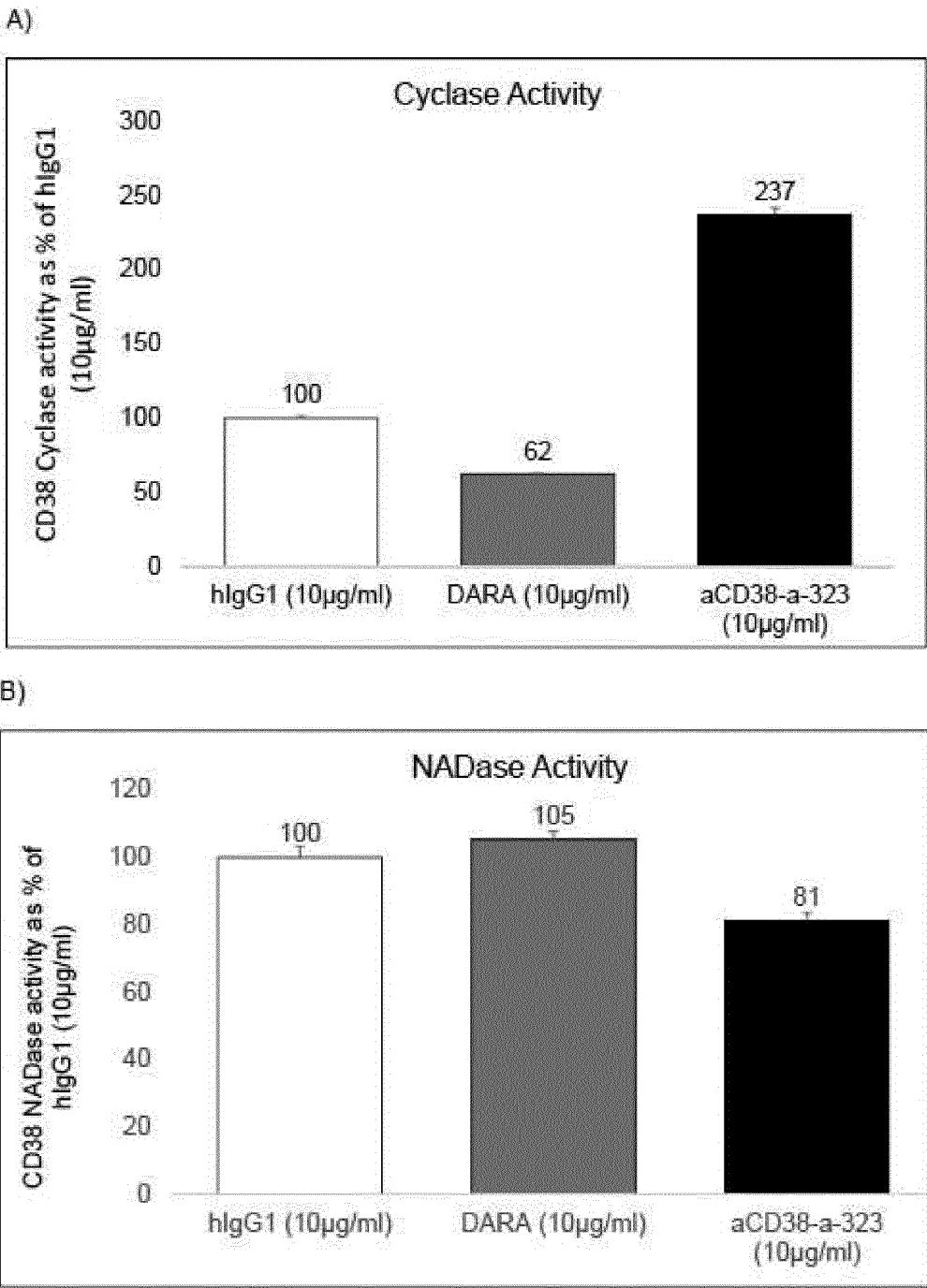


FIGURE 7

A)

aCD38-a-306-HCDR1

YTFTGYMH

aCD38-a-306-HCDR2

WINPNSGGTNYAQKFQG

aCD38-a-306-HCDR3

ARDQAHQRSSYD

aCD38-a-306-HCDR123

YTFTGYMHWVRQAPGGLEWMGWINPNSGGTNYAQKFQGRVTMTRDTSISTAYM
 ELSRLRSDDTAVYYCARDQAHQRSSYDWGQGLTVTVSS

aCD38-a-306-LCDR1

RASQSISSYLN

aCD38-a-306-LCDR2

GASSLQS

aCD38-a-306-LCDR3

QQRSSTPIT

aCD38-a-306-LCDR123

RASQSISSYLNWYQQKPGKAPKLLIYGASSLQSGVPSRFSGSGSGTDFTLTISLQPE
 DFATYYCQQRSSTPITFGGGTKVEIK

FIGURE 8

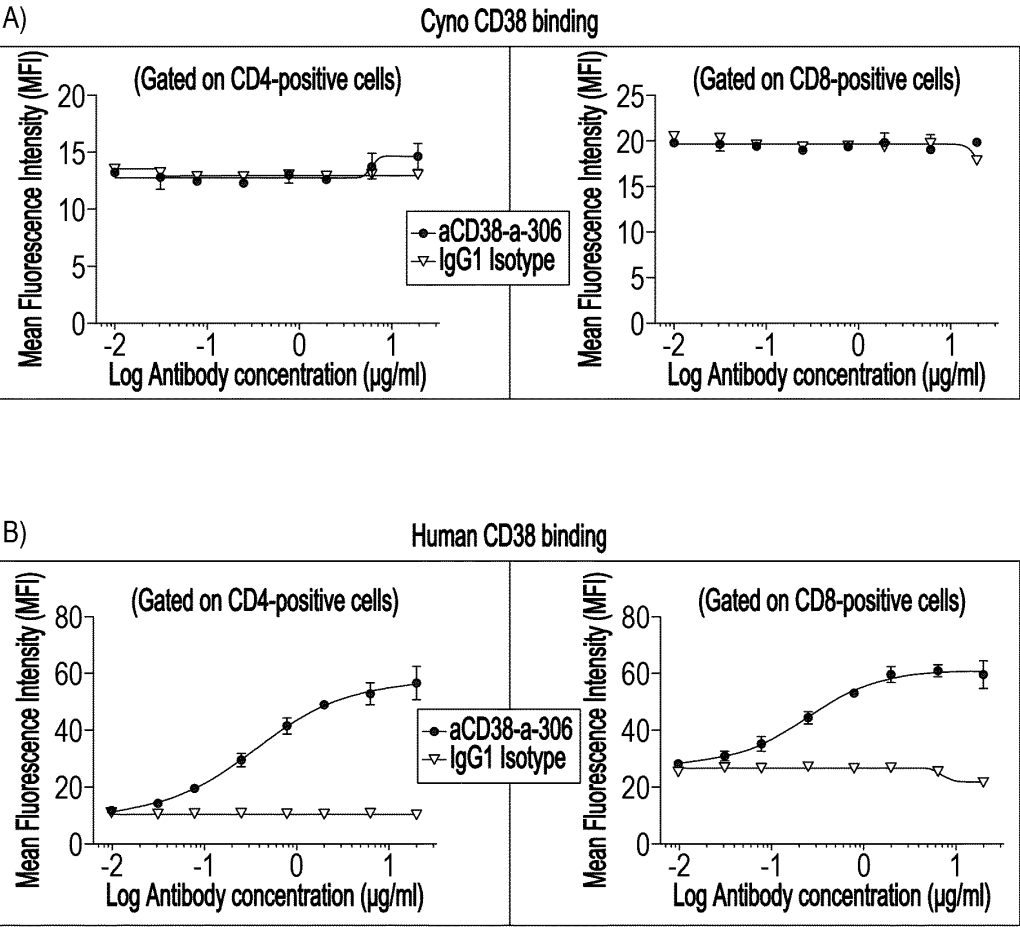


FIGURE 9

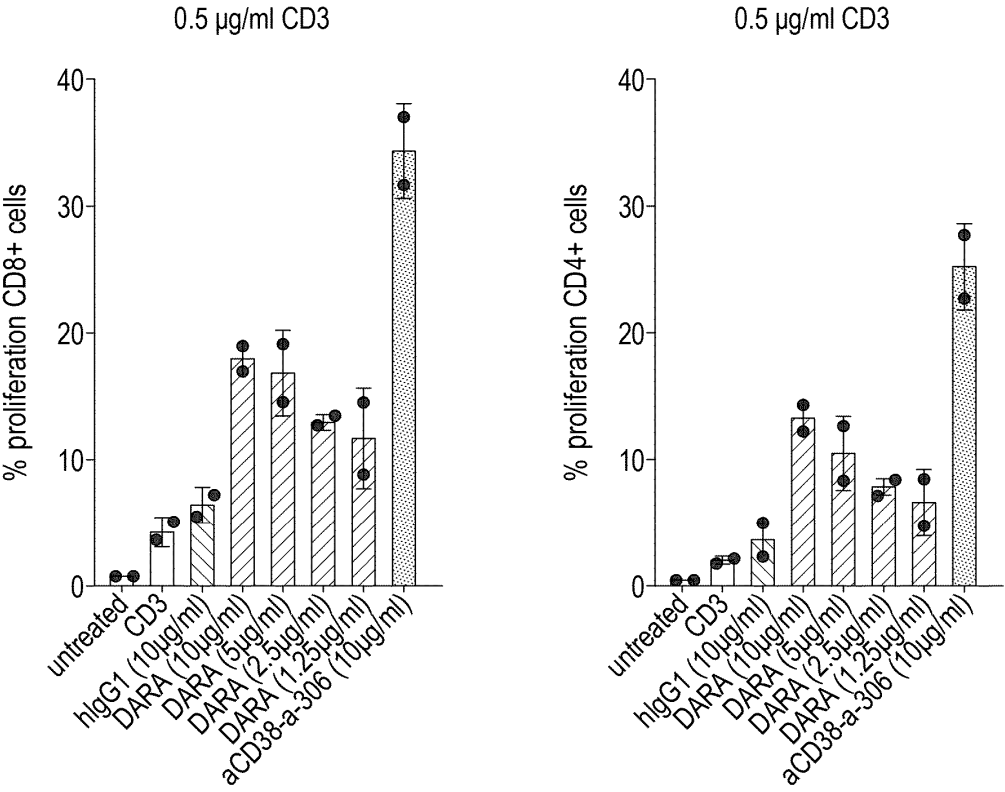


FIGURE 9 cont.

B)

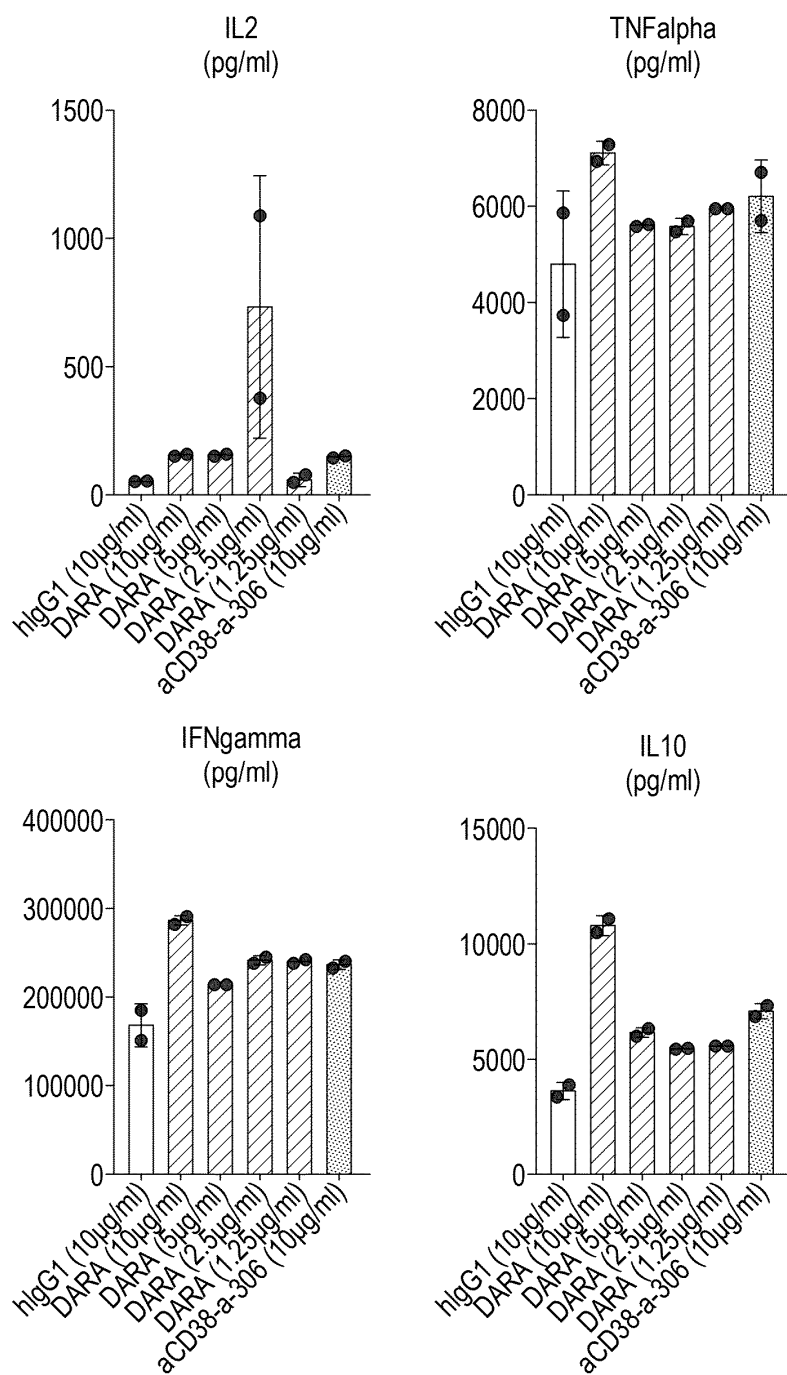
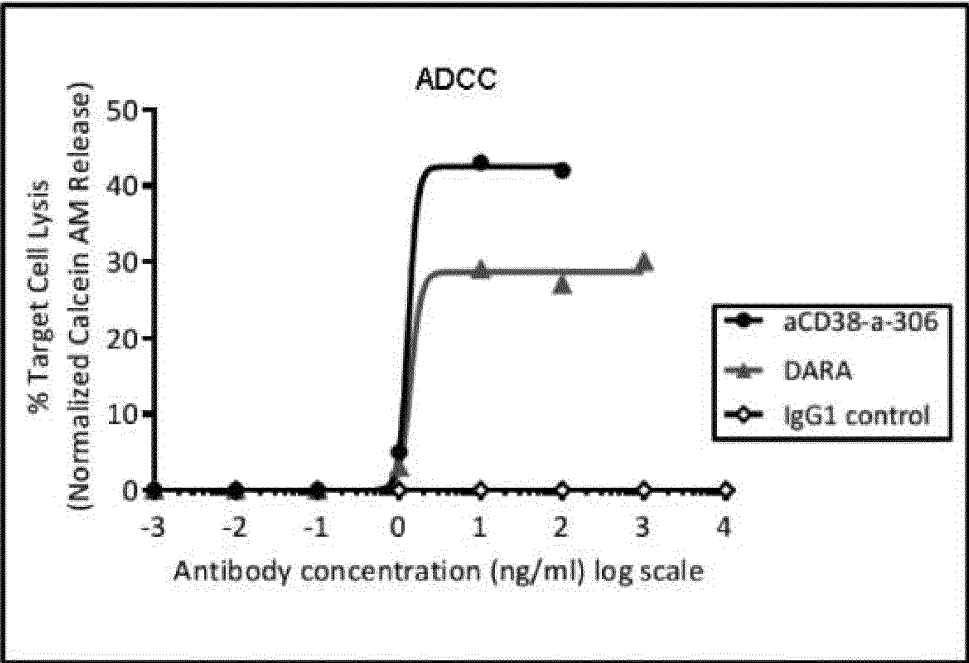


FIGURE 10

A)



B)

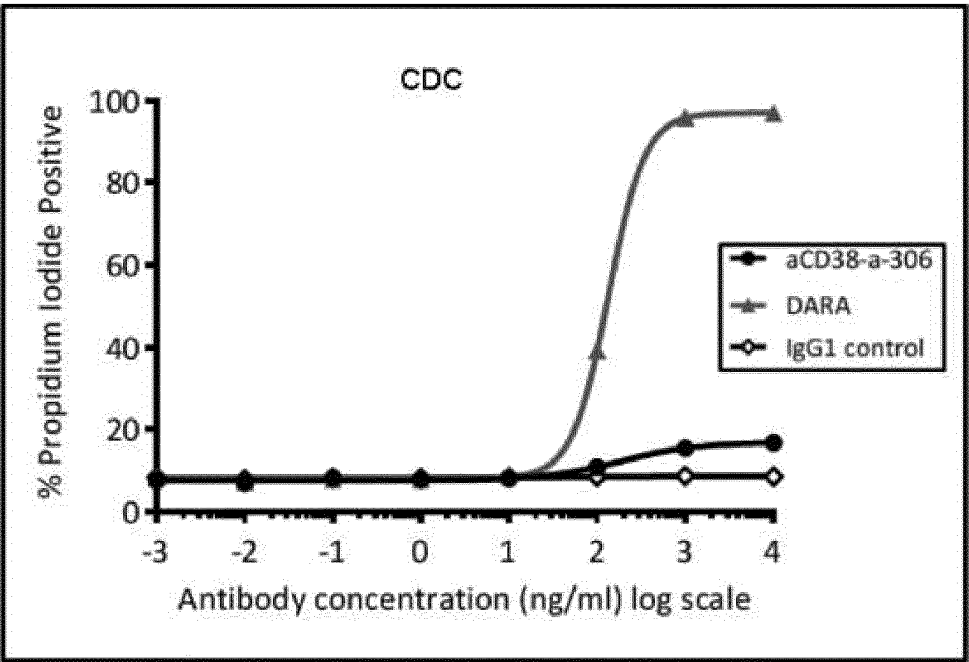


FIGURE 11

A1

CD38-b-329-HCDR1
GSISSSDYYWG

aCD38-b-329-HCDR2
SIYYSGSTYYNPSLKS

aCD38-b-329-HCDR3
ARGQYSSGWYAYPFDM

aCD38-b-329-HCDR123

GSISSSDYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKS
SVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-329-LCDR1
RASQSVRSSYLA

aCD38-b-329-LCDR2
GASSRAT

aCD38-b-329-LCDR3
QQDGAVFT

aCD38-b-329-LCDR123

RASQSVRSSYLAWYQKPGQAPRLIYGASSRATGIPDRFSGSGSGTDFTLTISRLEP
EDFAVYYCQDQAVFT

B)

Cytoplasmic		Transmembrane	
10	20	30	40
MANCEFSPVS	GDKPCCRLSR	RAQLCLGVSI	LVLILVVVLA
50			
			VVVPWRQQW
60	70	80	90
SGPGTTKRFP	ETVILARCVKY	TEIHPEMRHV	DCQSVWDAFK
			GAFISKHPCN
110	120	130	140
ITEEDYQPLM	KLGTQTVPCN	KILLWSRIKD	LAHQFTQVQR
			DMFTLEDTLL
160	170	180	190
GYLADDLTWC	GEFNSTKINY	QSCPDWRKDC	SNNPVSVFWK
			TVSRRFAEAA
210	220	230	240
CDVVHVMLNG	SRSKIFDKNS	TFGSVEVHNL	QPEKVQTLA
			WVIHGGREDS
260	270	280	290
RDLCQDPTIK	ELESIIISKRN	IQFSCKNIYR	PKDFLQCVKN
			PEDSSCTSEI

FIGURE 12

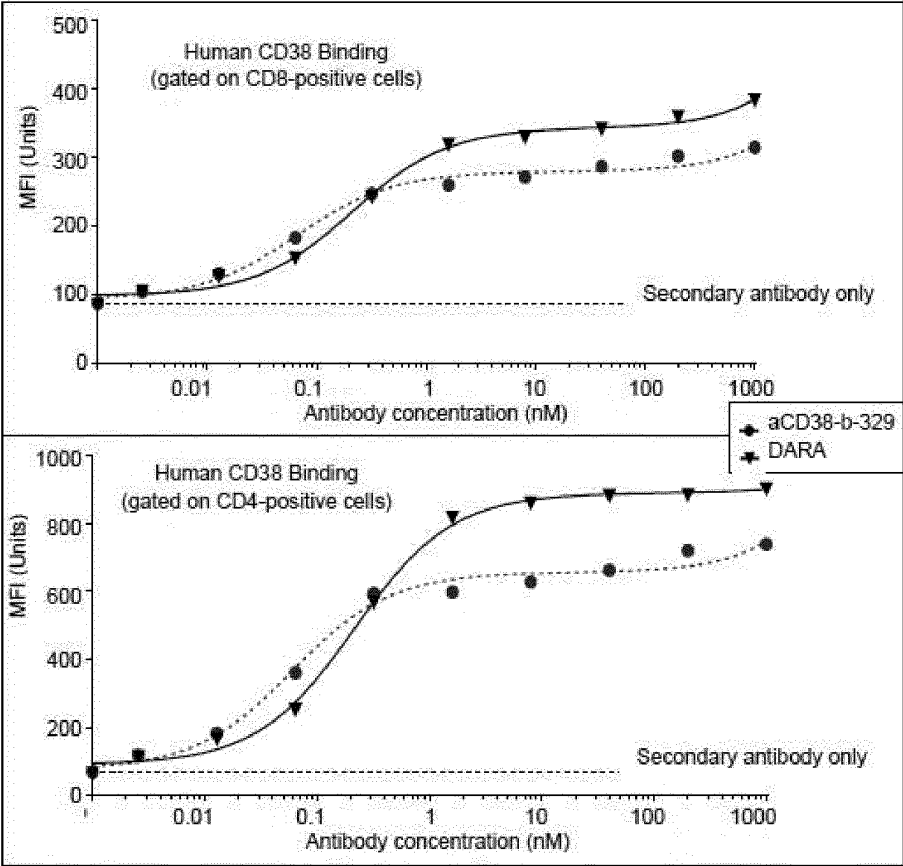
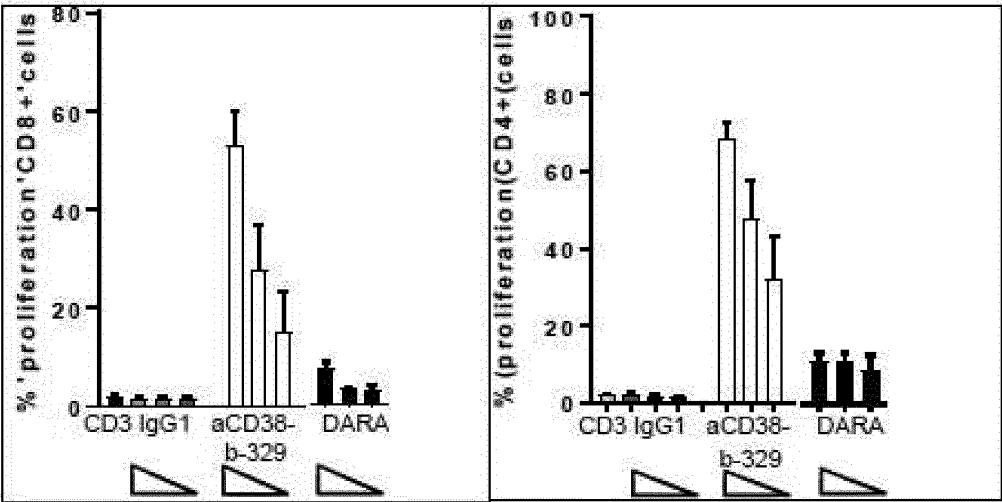


FIGURE 13

A)



B)

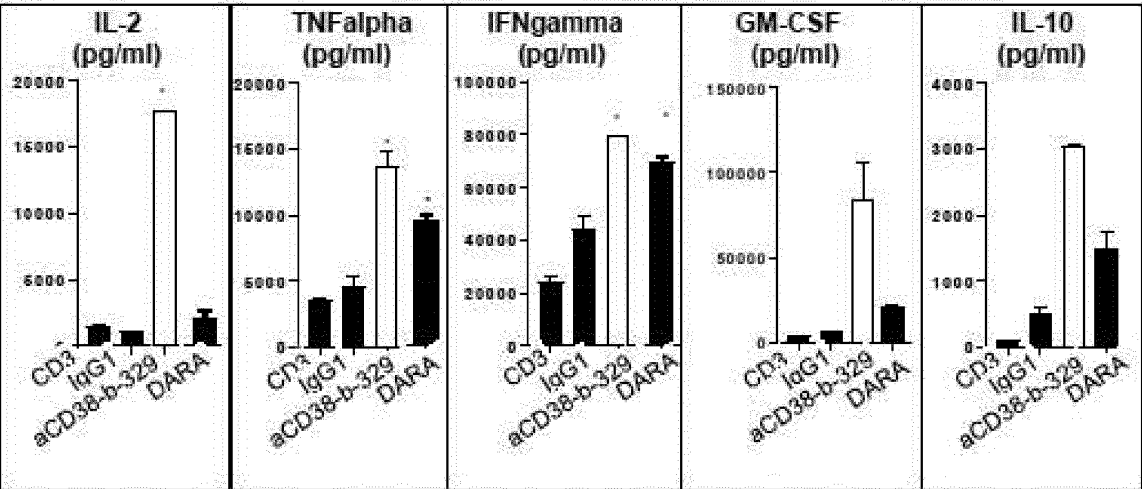


FIGURE 14

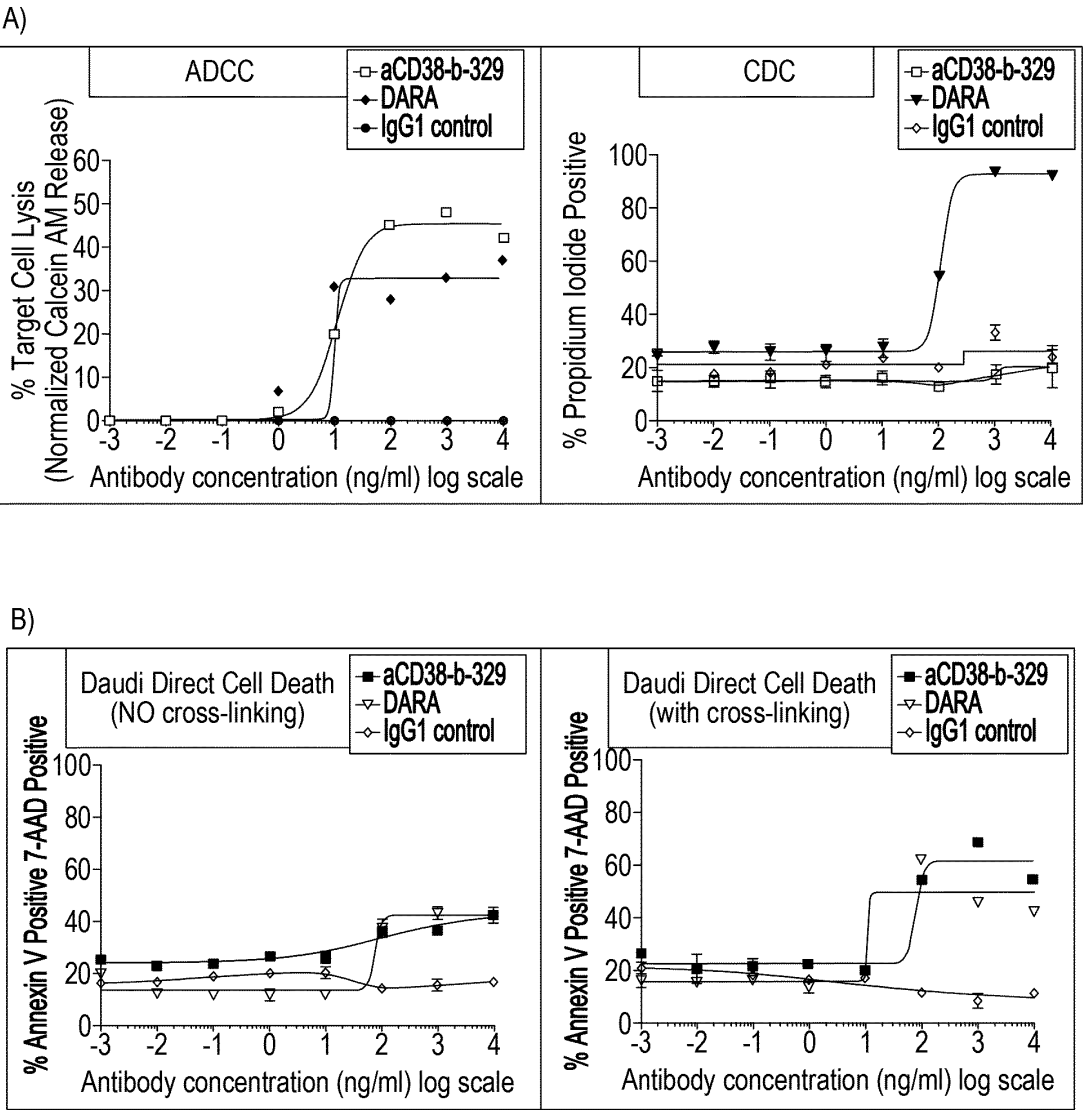
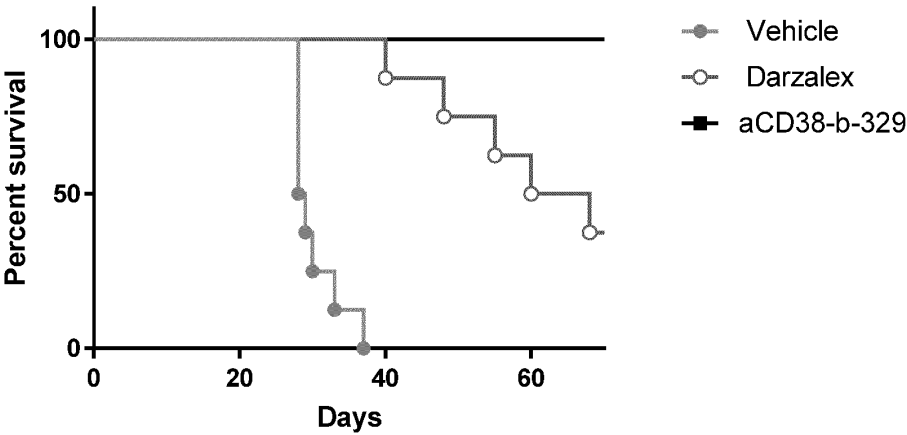


FIGURE 15

A)



B)

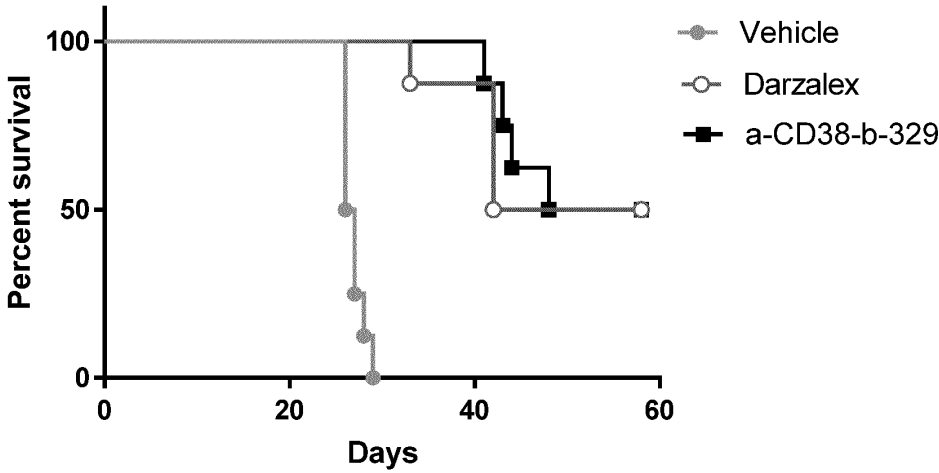


FIGURE 16

A)

CD38-b-348-HCDR1
GSISSSDYYWG

aCD38-b-348-HCDR2
SIYYSGSTYYNPSLKS

aCD38-b-348-HCDR3
ARGQYSSGWYAYPFDM

aCD38-b-348-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSSRVTISVDTSKNQFSLKLS
SVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-348-LCDR1
RASQSVRSSYLA

aCD38-b-348-LCDR2
GASSRAT

aCD38-b-348-LCDR3
QQDGNVYT

aCD38-b-348-LCDR123

RASQSVRSSYLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTISRLEP
EDFAVYYCQQDGNVYT

B)

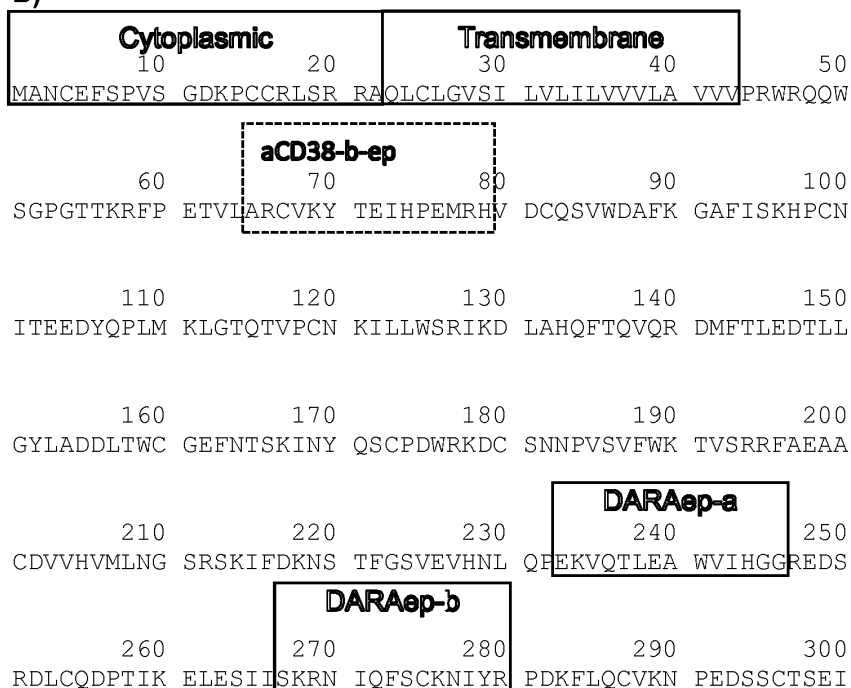


FIGURE 17

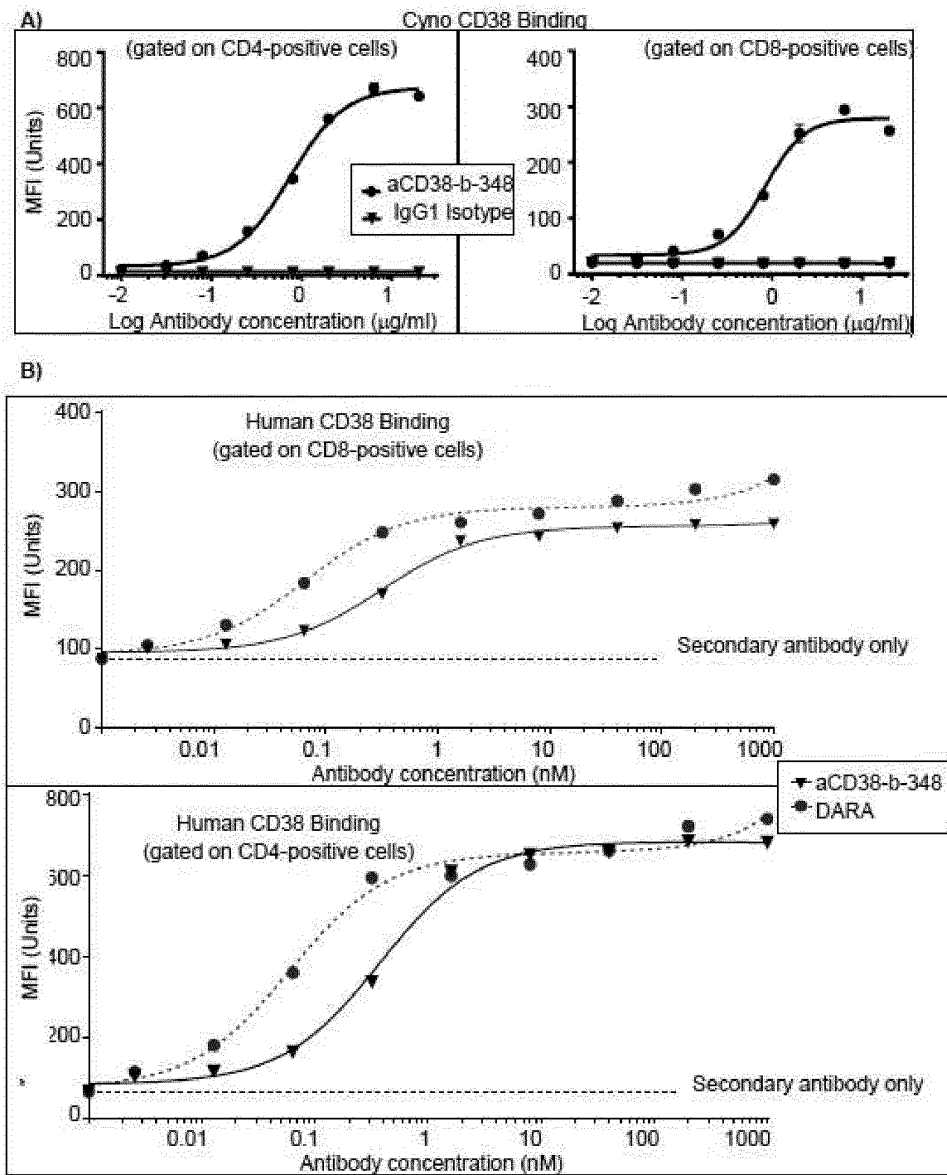


FIGURE 18

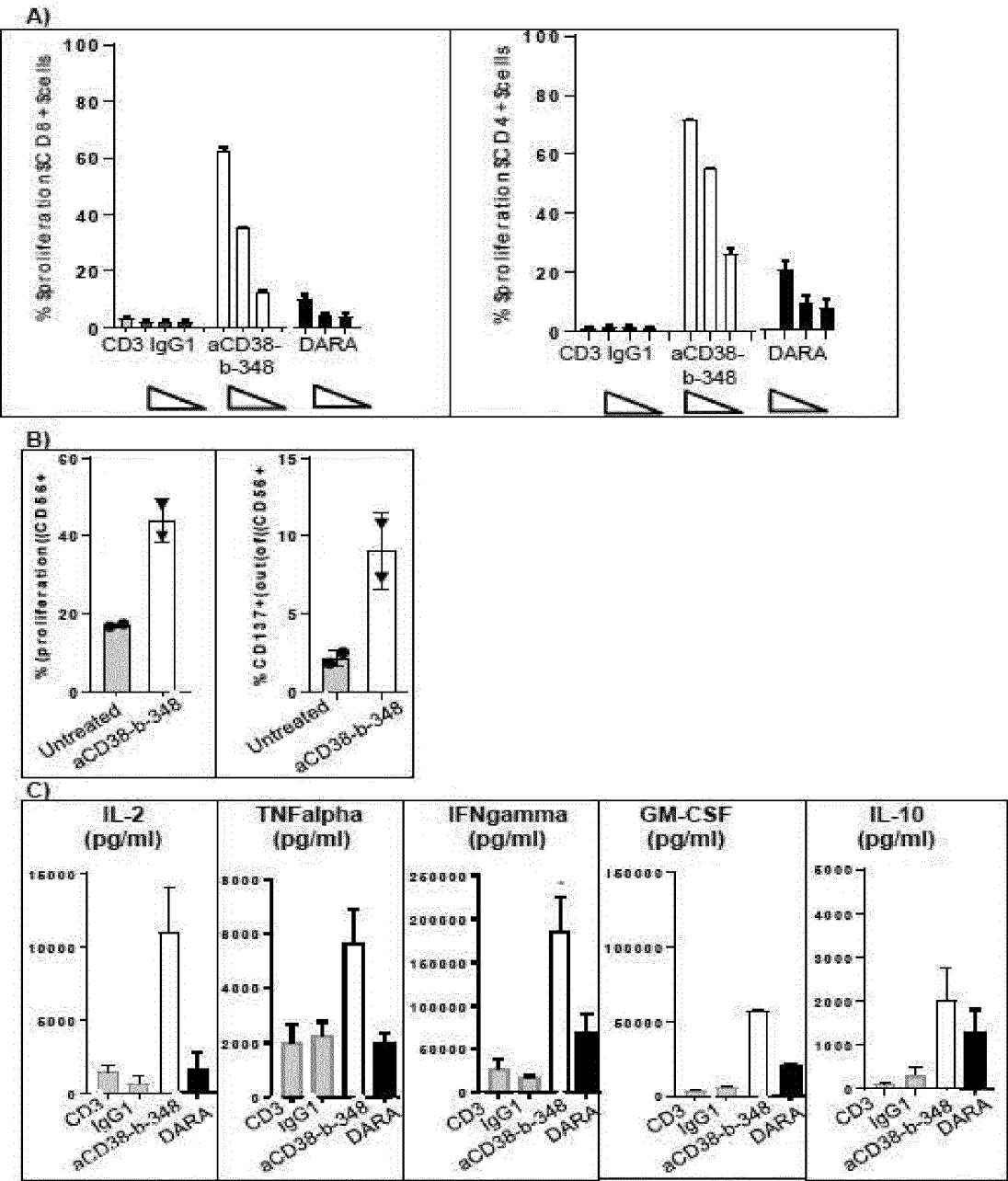


FIGURE 19

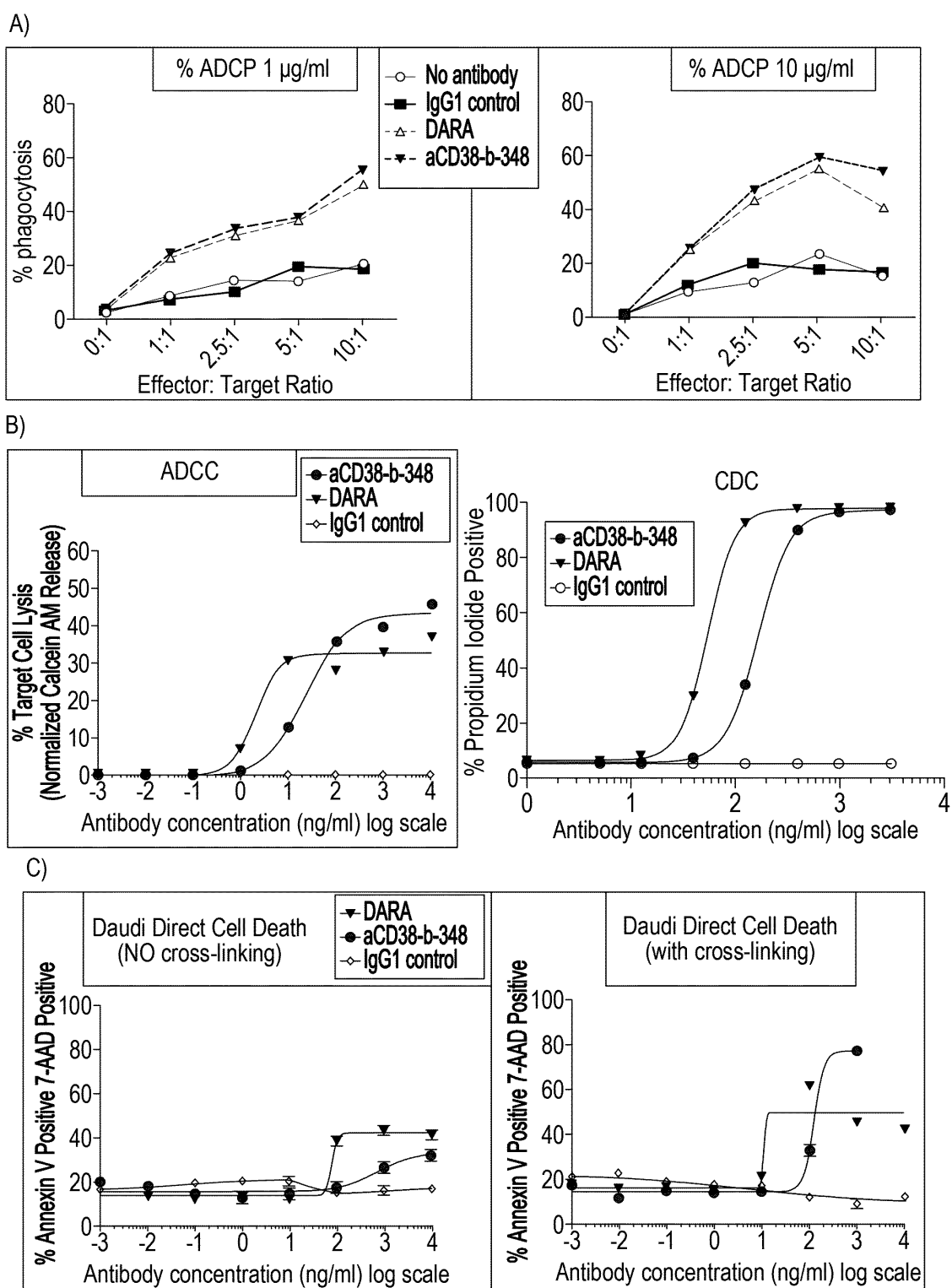


FIGURE 20

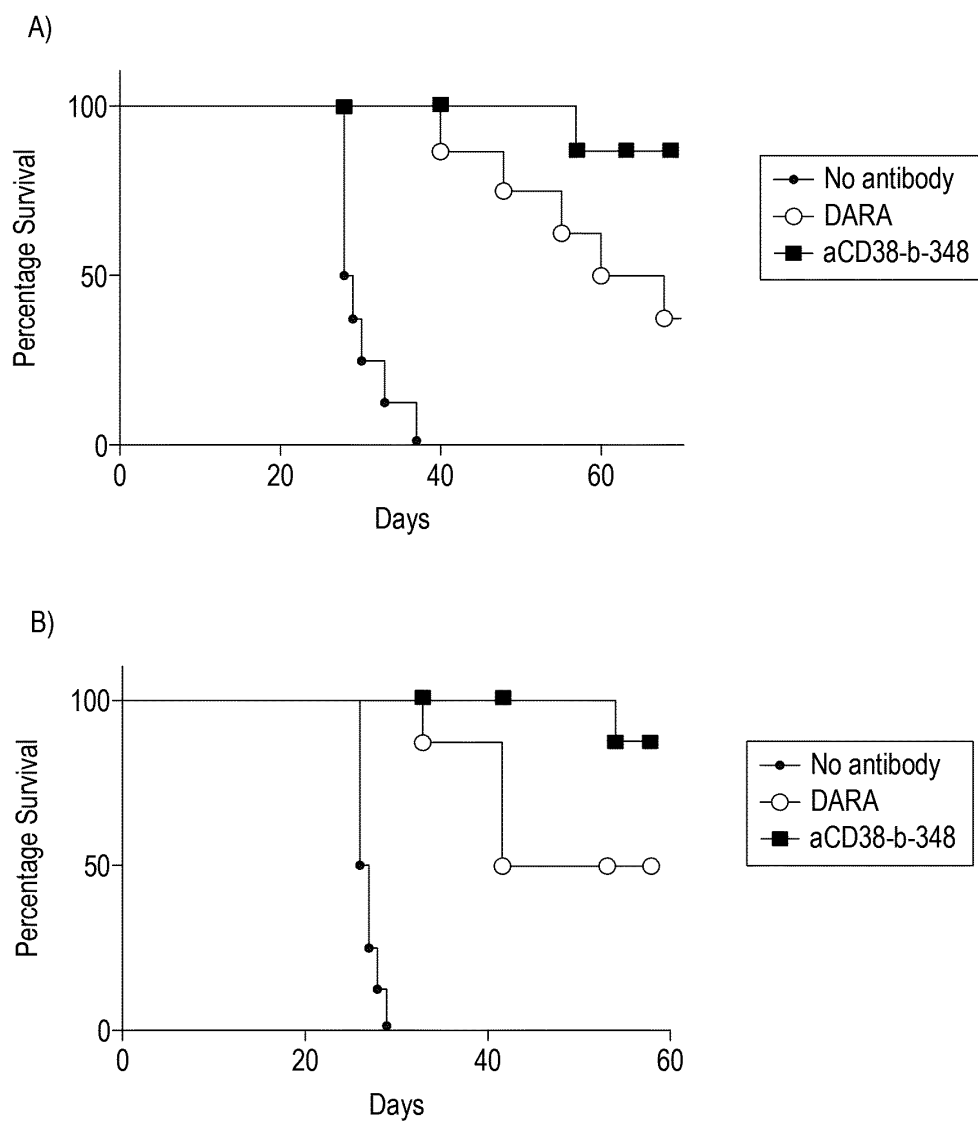


Figure 21

A)

aCD38-a-327-HCDR1

GSISSGGYYWS

aCD38-a-327-HCDR2

YIYSGSTYYNPSLKS

aCD38-a-327-HCDR3

ARAKSELVLPYYYYMDV

aCD38-a-327-HCDR123

GSISSGGYYWSWIRQH¹PGKGLEWIGYIYSGSTYYNPSLKS²SRVTISVDTSKNQFSLKLSSVTAADTAVYYCA³
RAKSELVLPYYYYMDVWGKGTTVTSS

aCD38-a-327-LCDR1

KSSQSVLFSSNNKNYLA

aCD38-a-327-LCDR2

WASTRES

aCD38-a-327-LCDR3

QQYYSLPPT

aCD38-a-327-LCDR123

KSSQSVLFSSNNKNYLAWYQQKPGQP¹PKLLIYWASTRES²GV³PDRFSGSGSGTDFTLT⁴ISSLQAEDVAVYY⁵
CQQYYSLPPTFGGGTKVEIK

B)

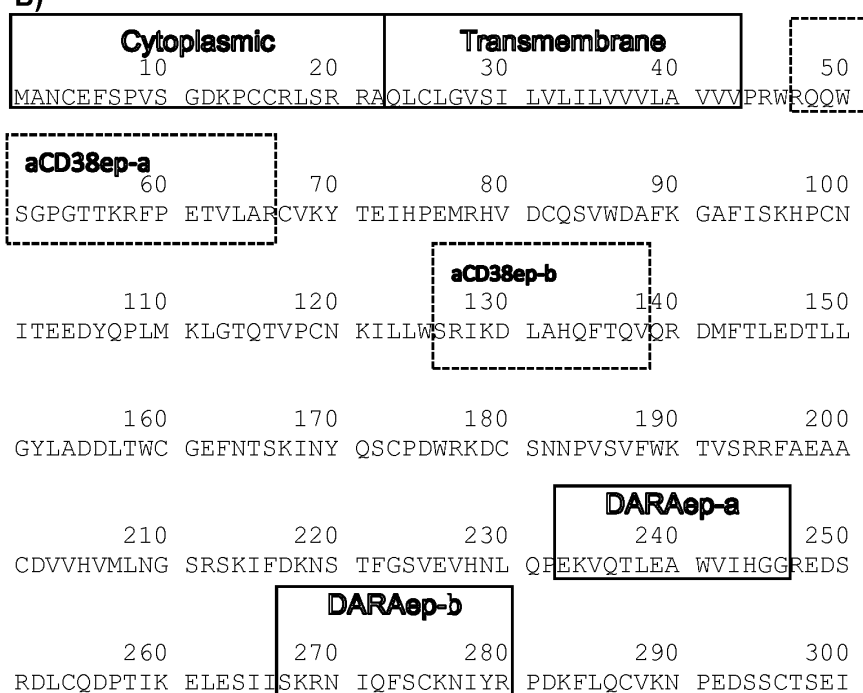


FIGURE 22

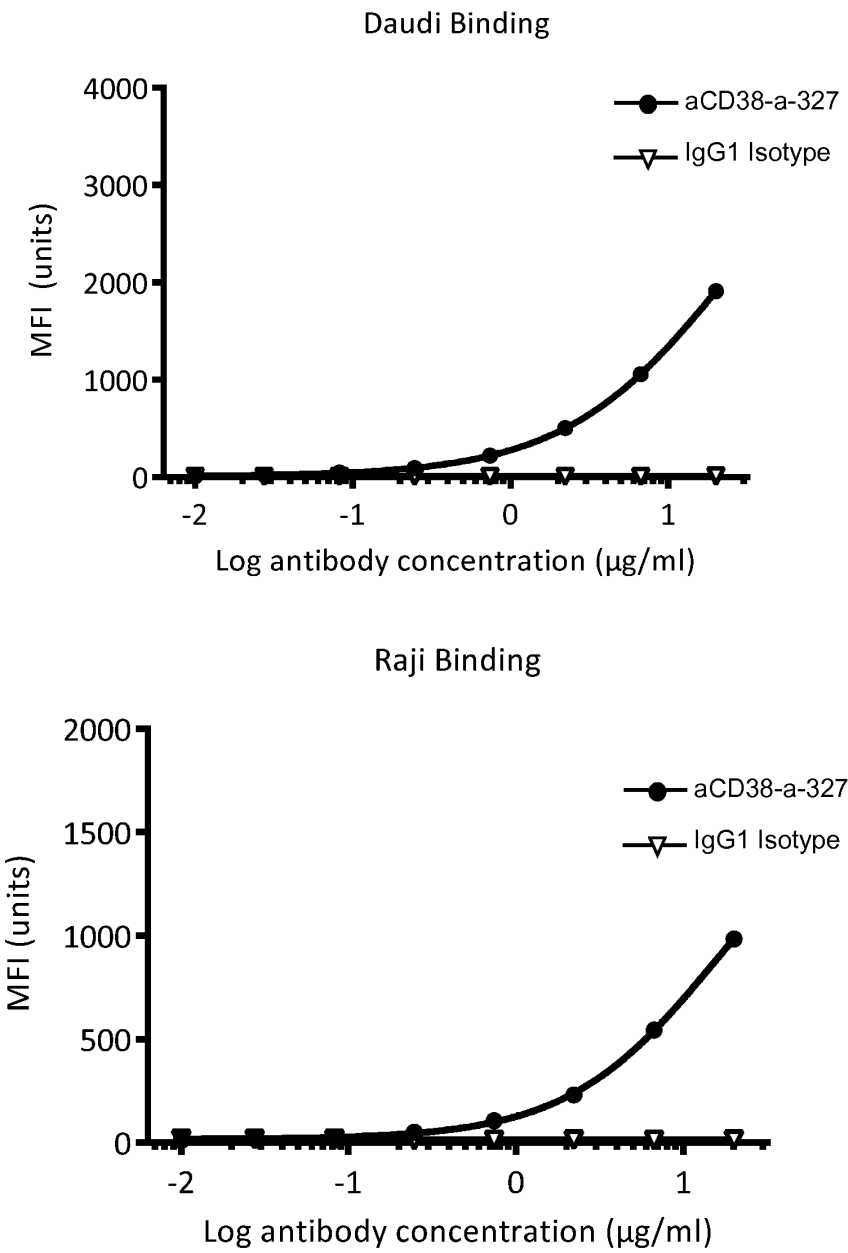


FIGURE 23

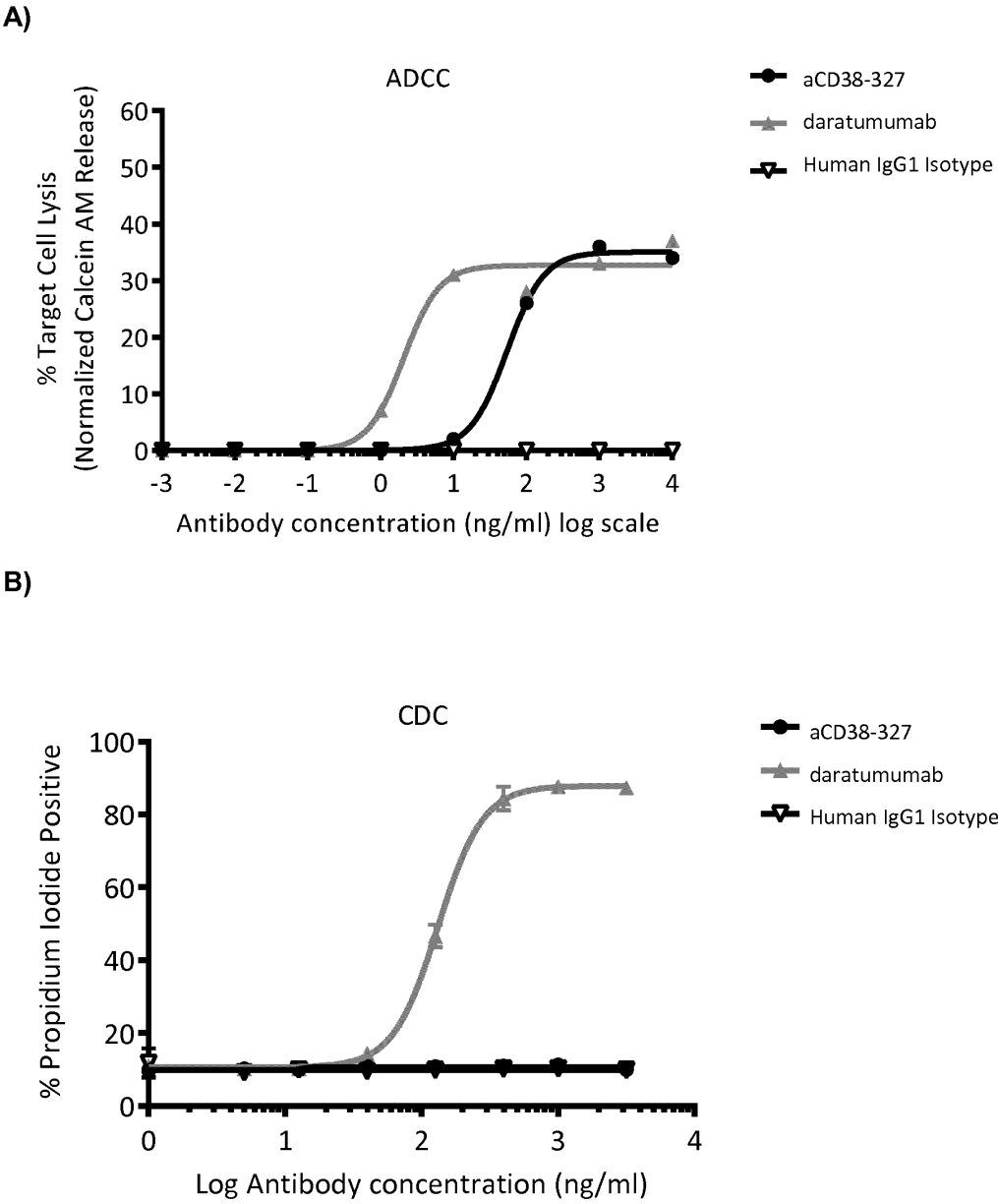
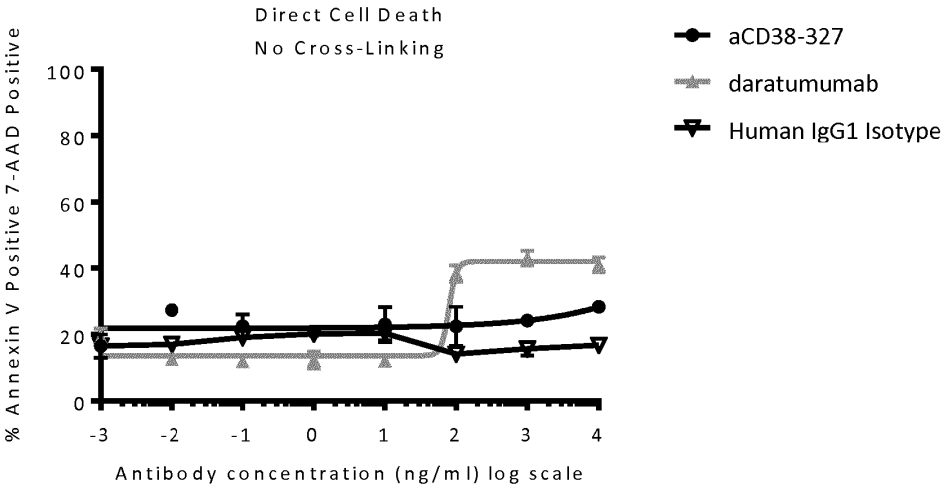


FIGURE 23 (Cont.)

C)



D)

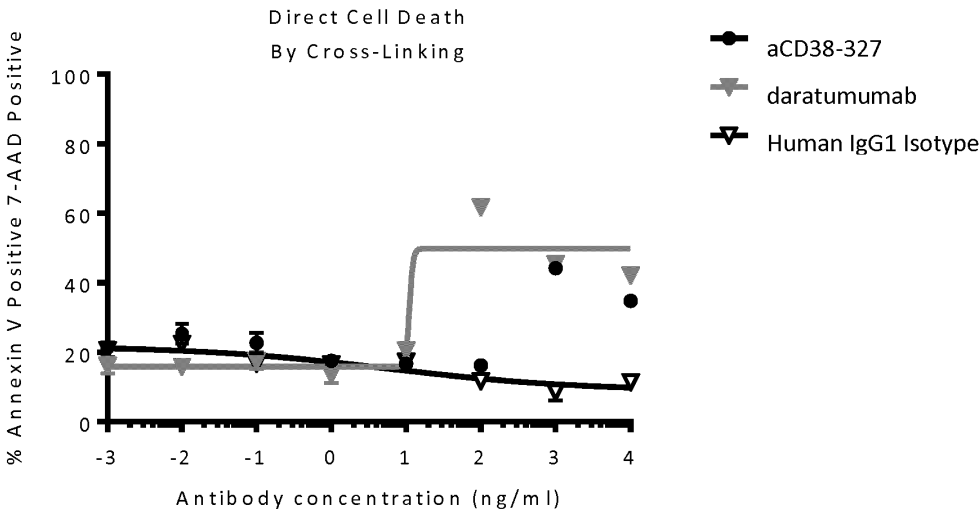
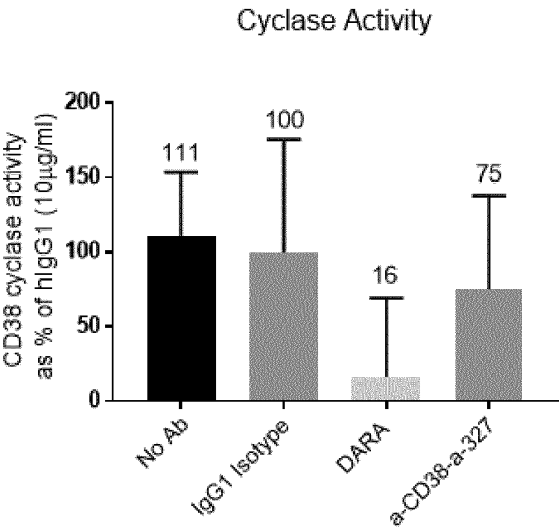


FIGURE 24

A)



B)

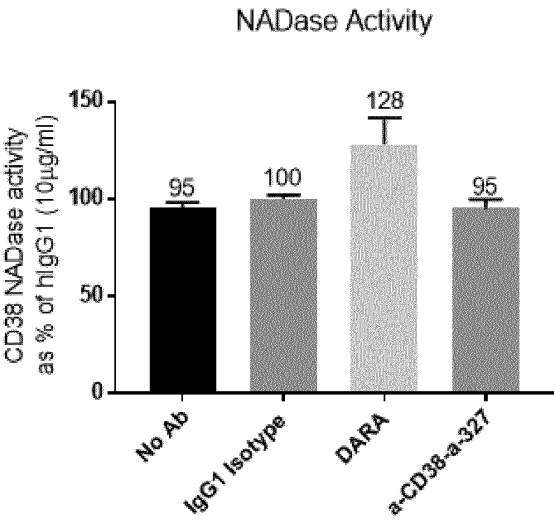


FIGURE 25

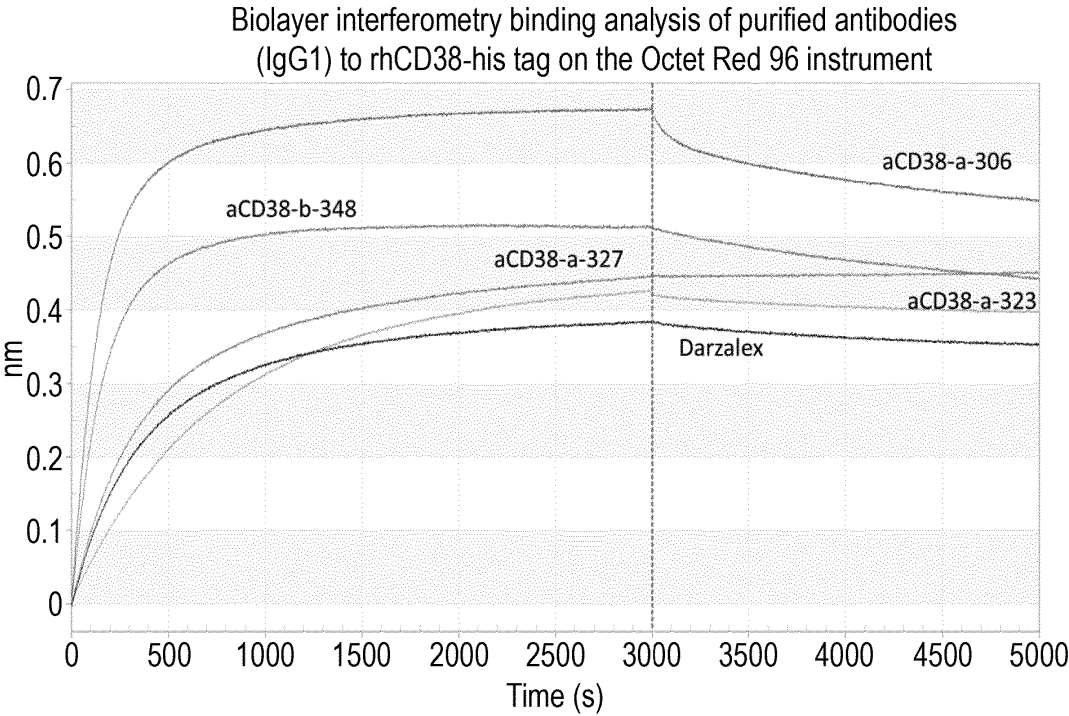


FIGURE 26

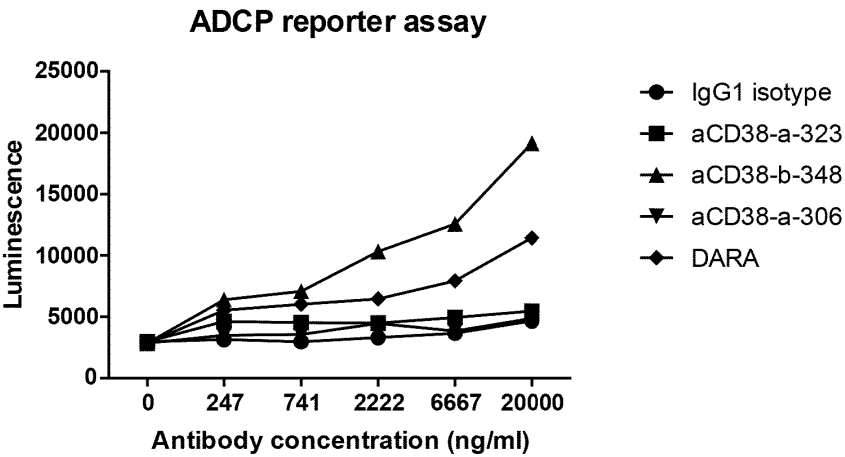
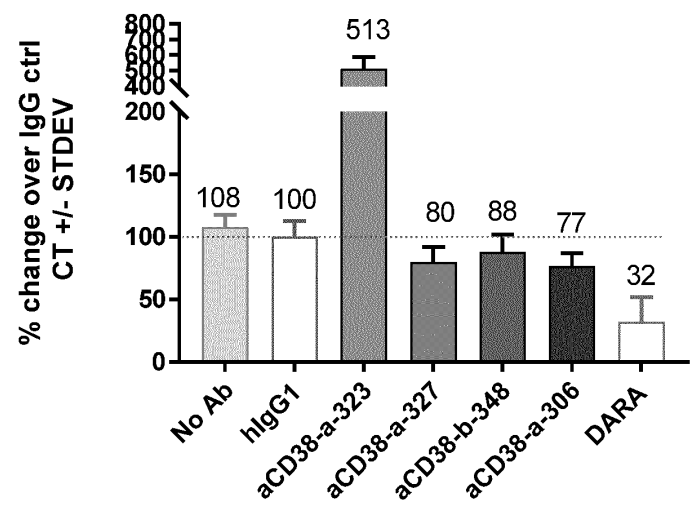


Figure 27

A)



B)

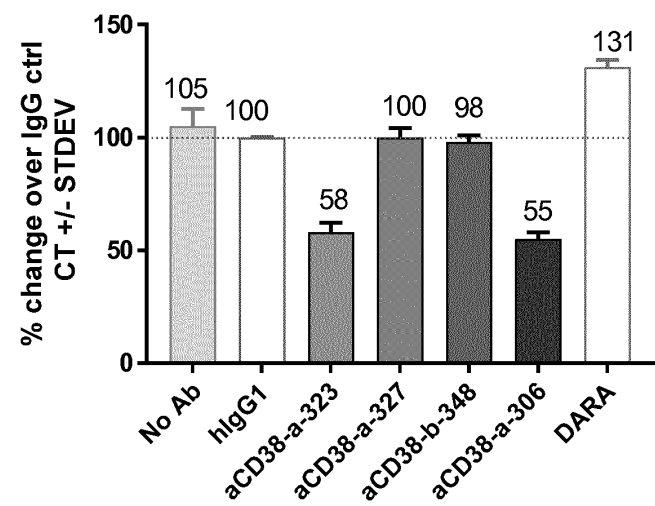


FIGURE 28

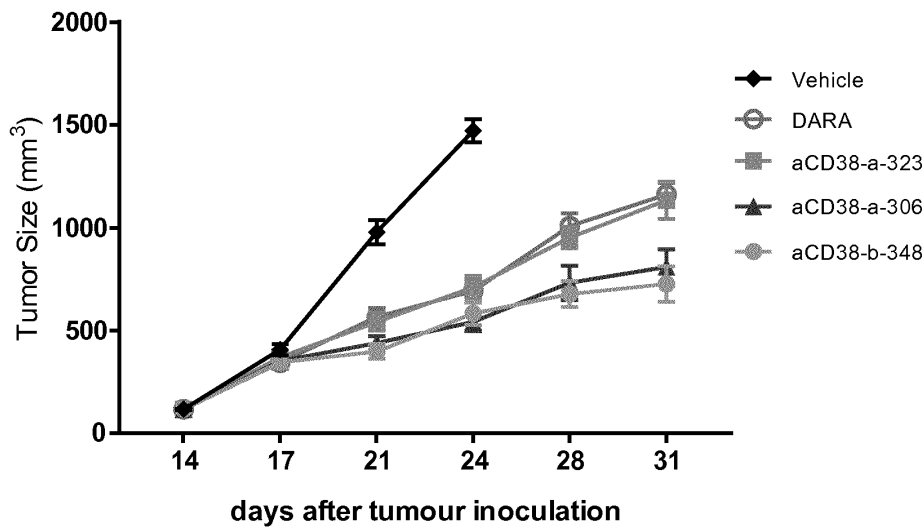


FIGURE 29

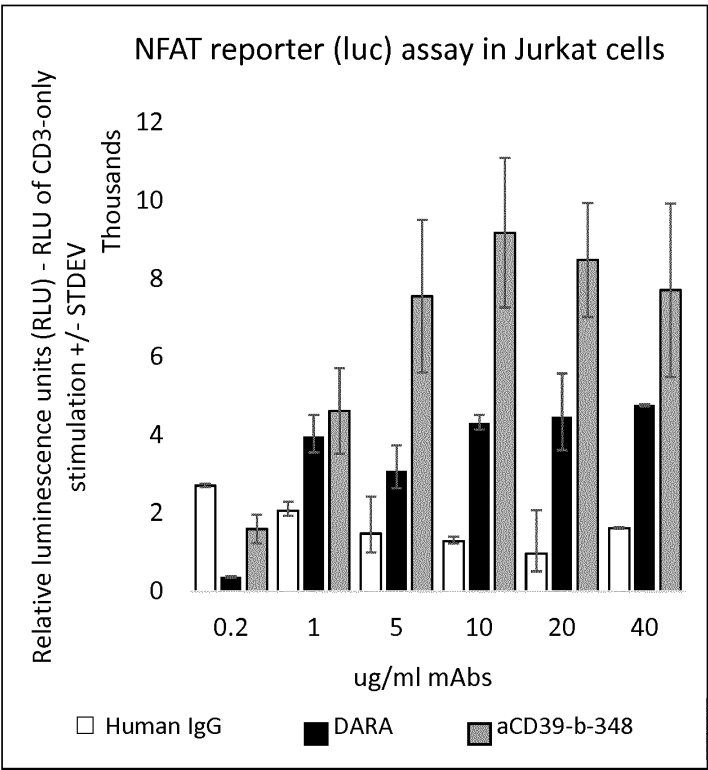


Figure 30A

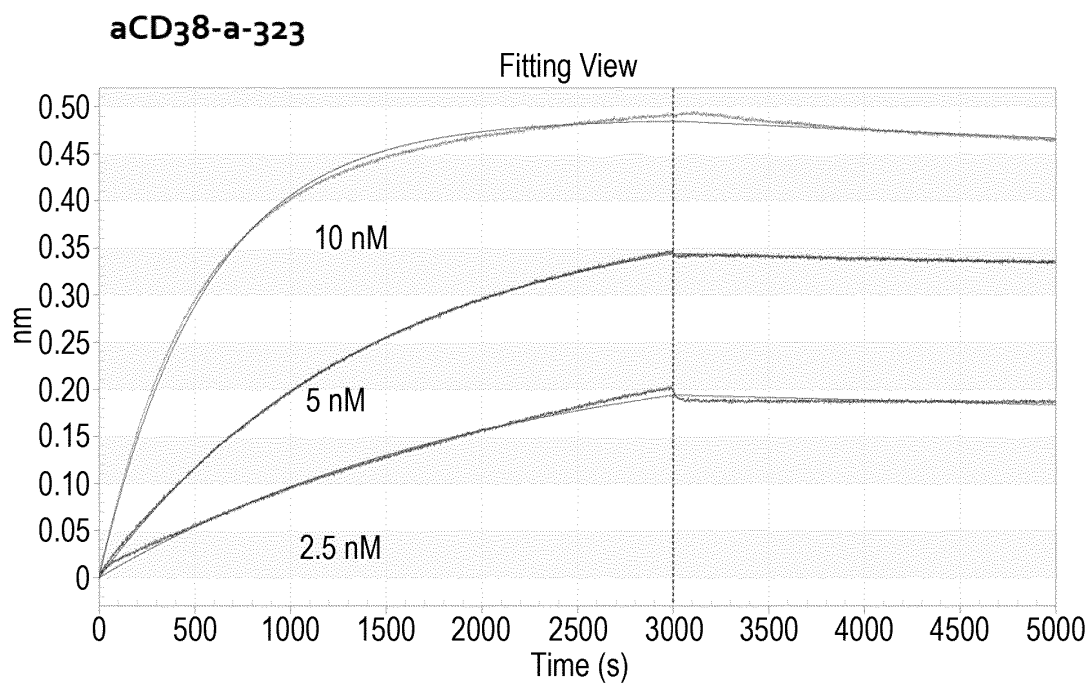


Figure 30B

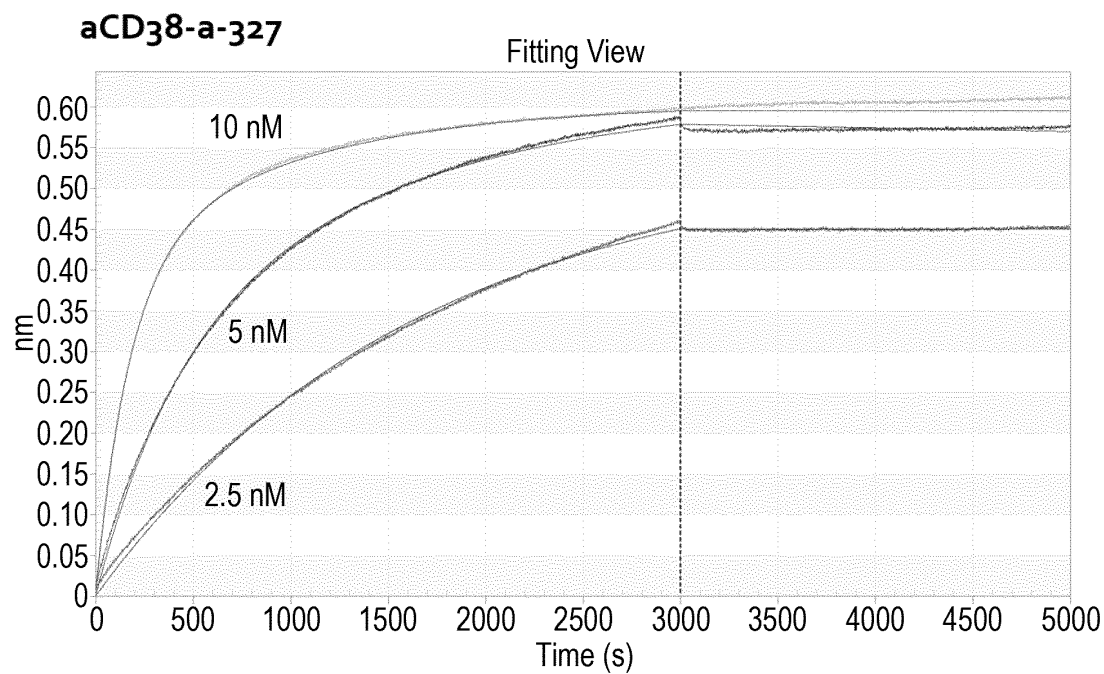


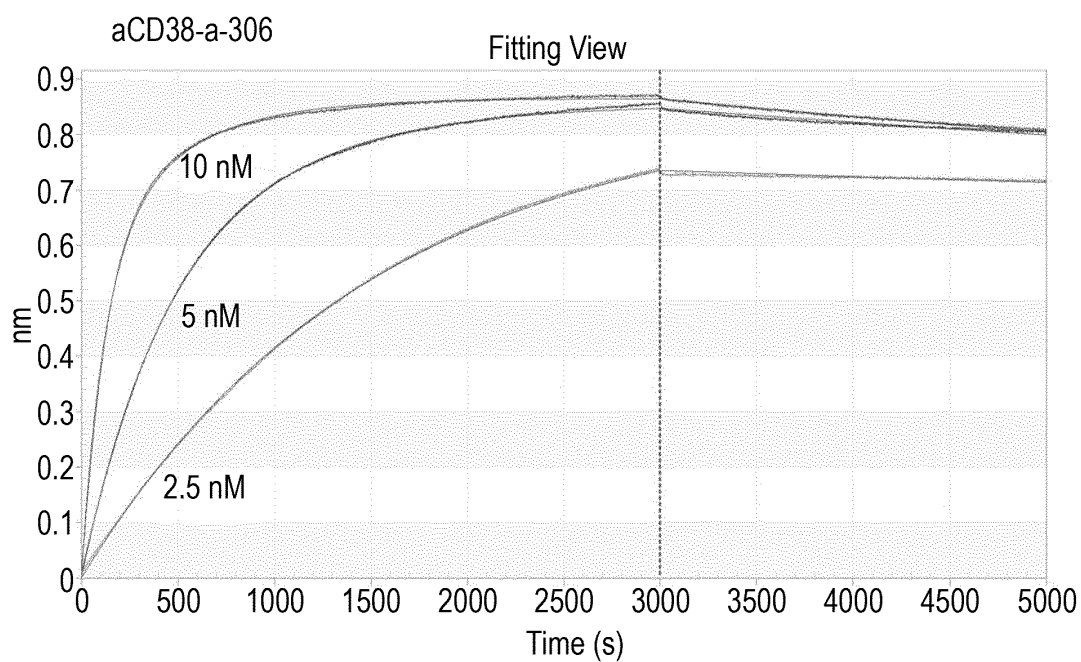
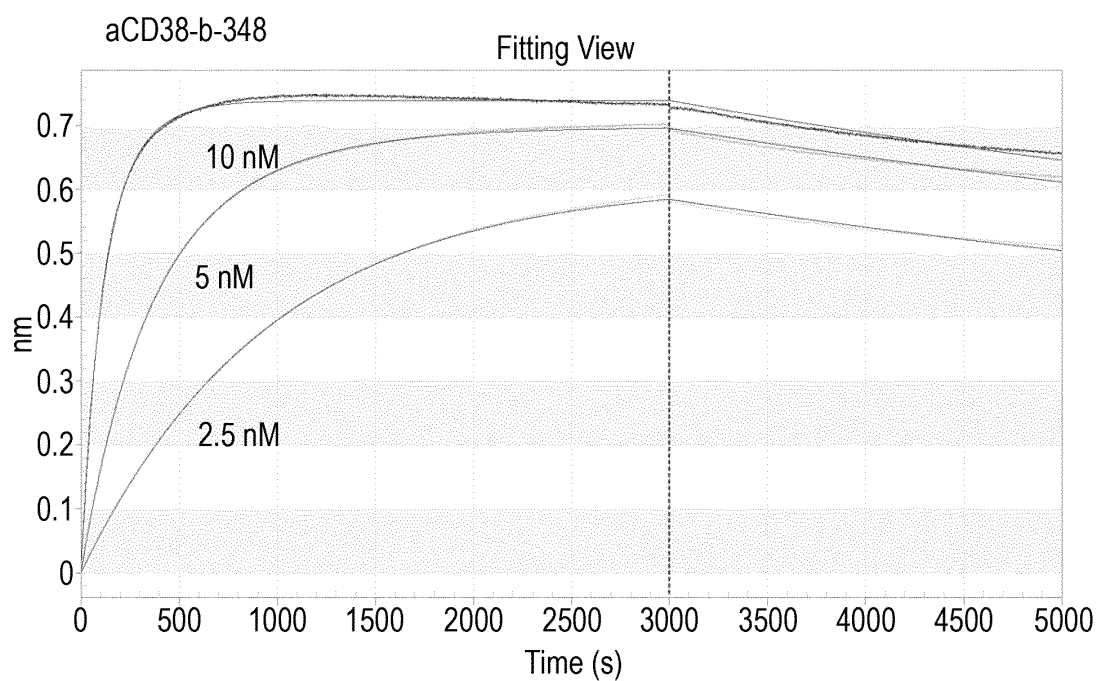
Figure 30C**Figure 30D**

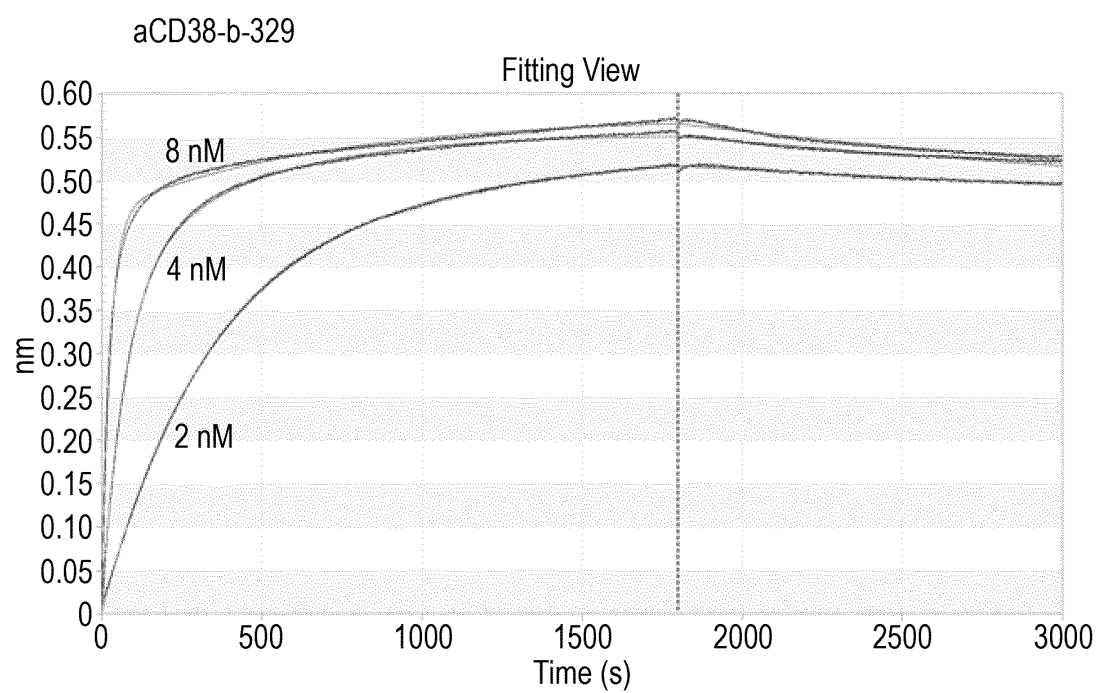
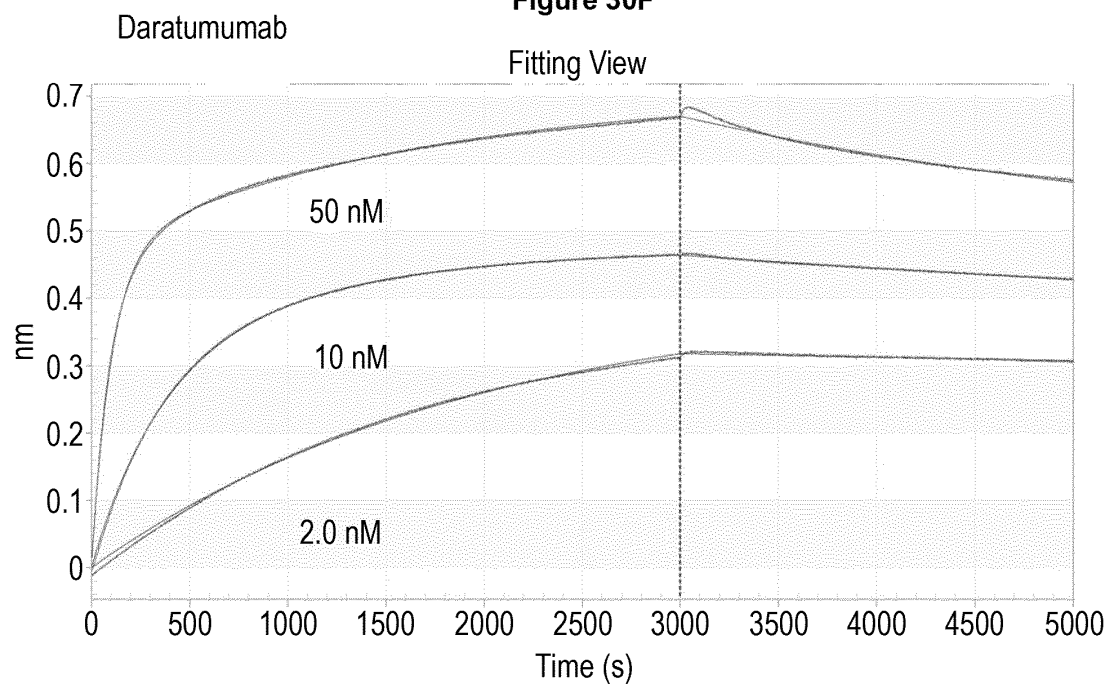
Figure 30E**Figure 30F**

FIGURE 31

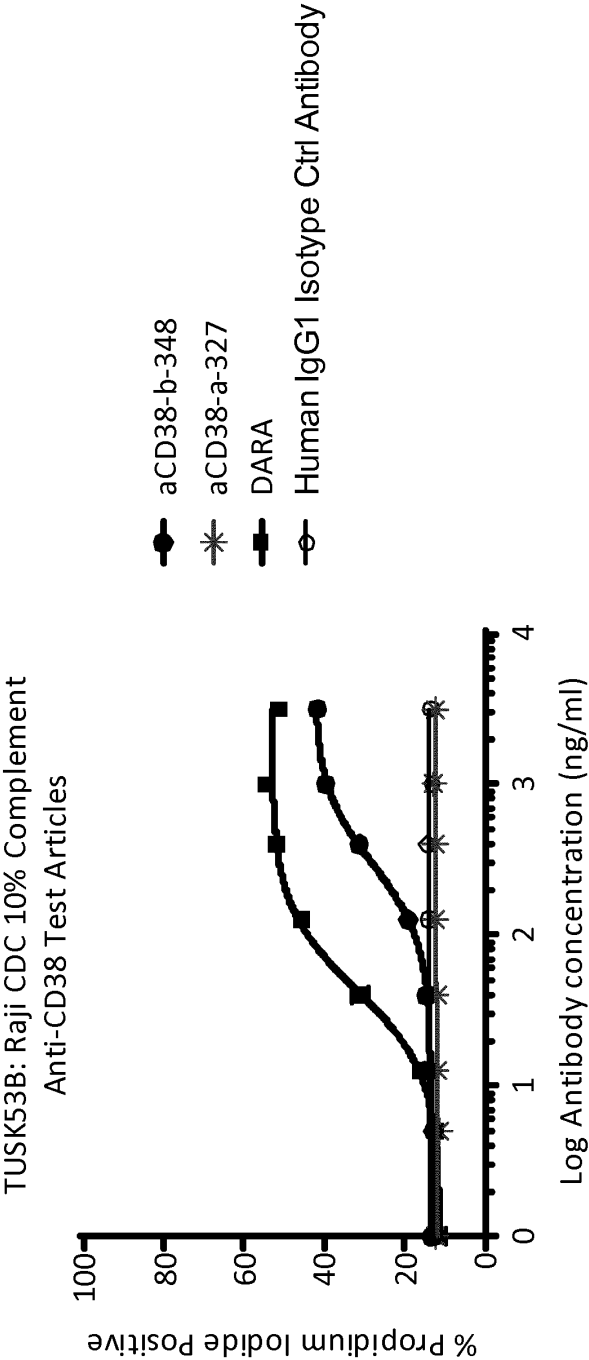
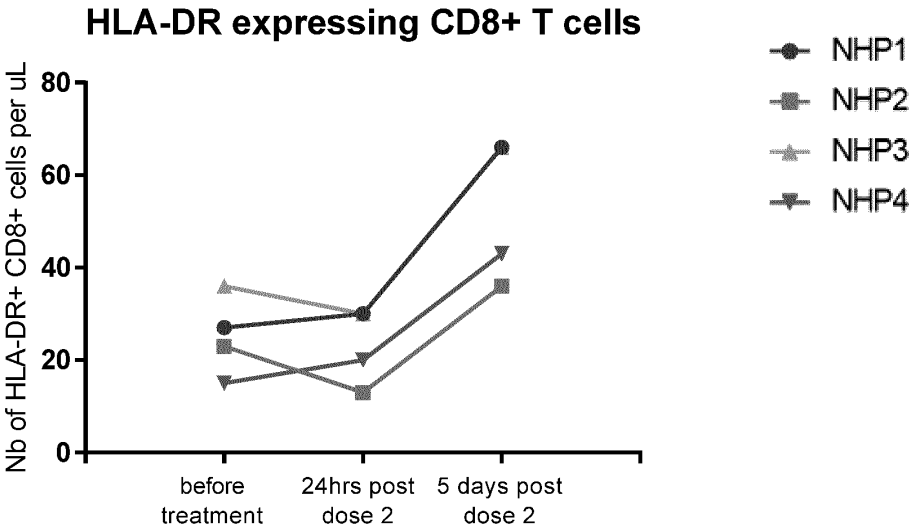


FIGURE 32

A)



B)

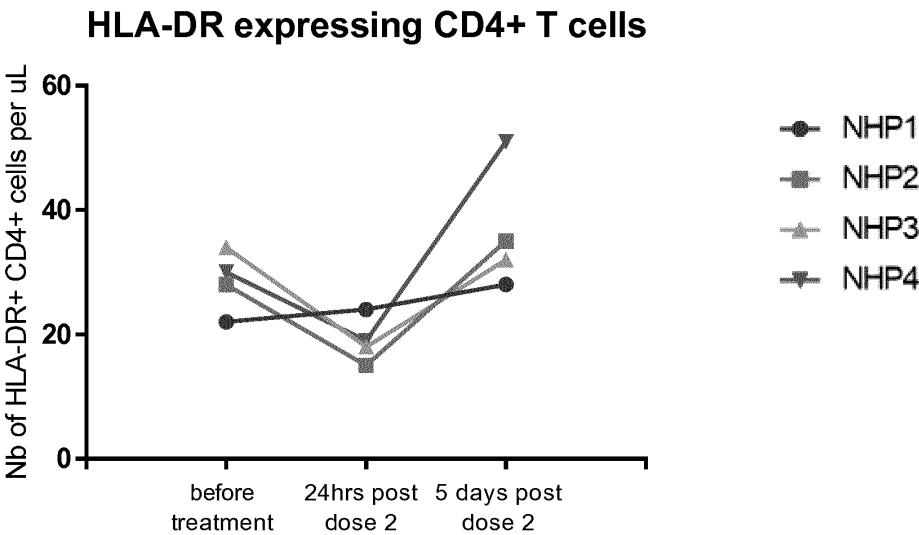
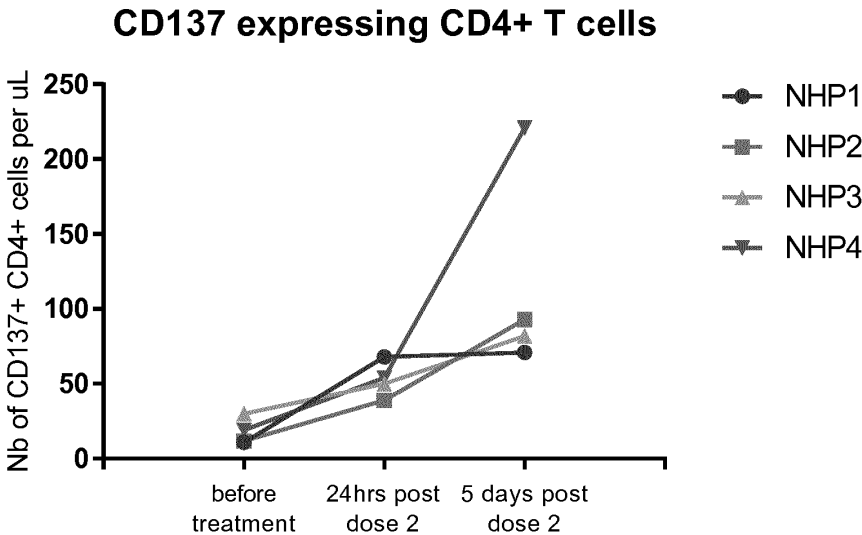


FIGURE 32 cont.

C)



D)

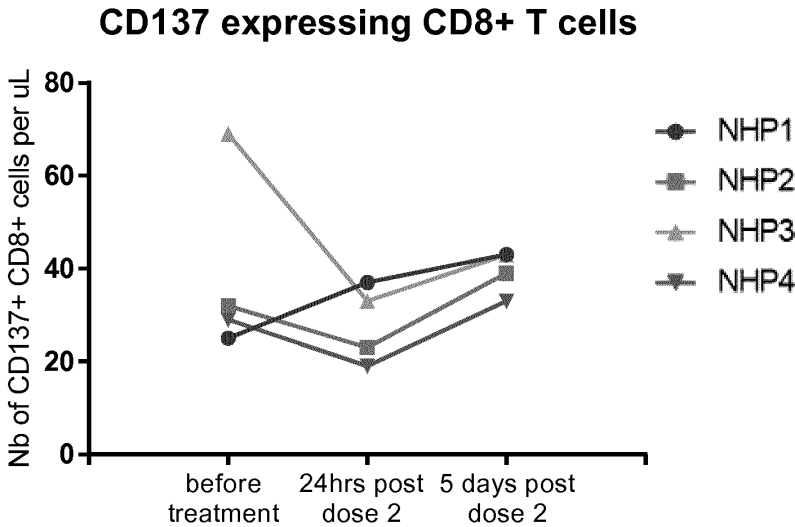
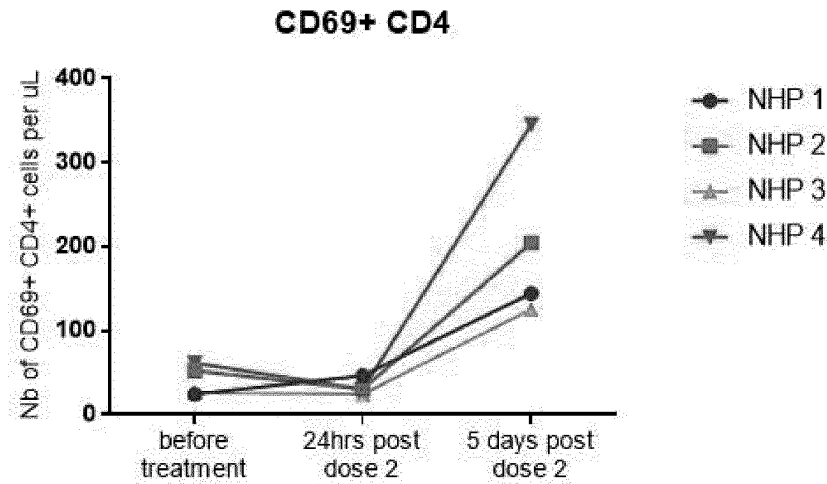


FIGURE 32 cont.

E)



F)

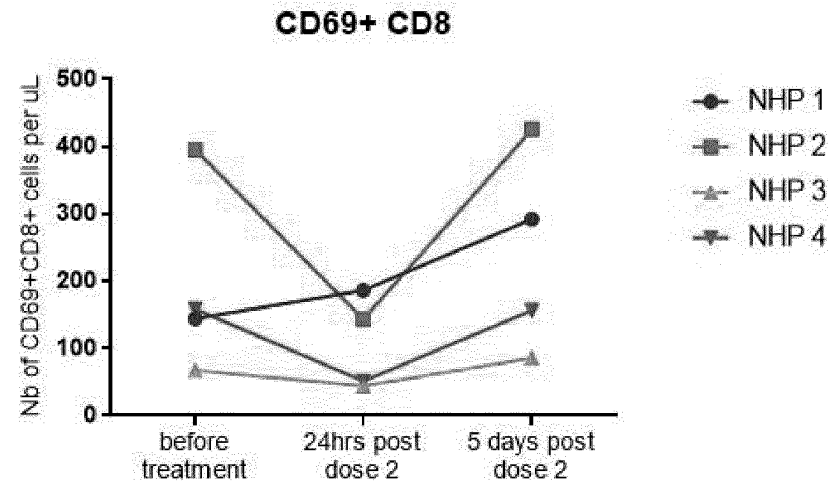


FIGURE 33

A)

aCD38-b-329-m6-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFSLK
LSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-329-m6-LCDR123

RASQSVRSSLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTISRL
EPEDFAVYYCQQDEAVFT

B)

aCD38-b-329-m7-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFSLK
LSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-329-m7-LCDR123

RASQSVRSSLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTISRL
EPEDFAVYYCQQDSAVFT

FIGURE 34

Daudi Binding

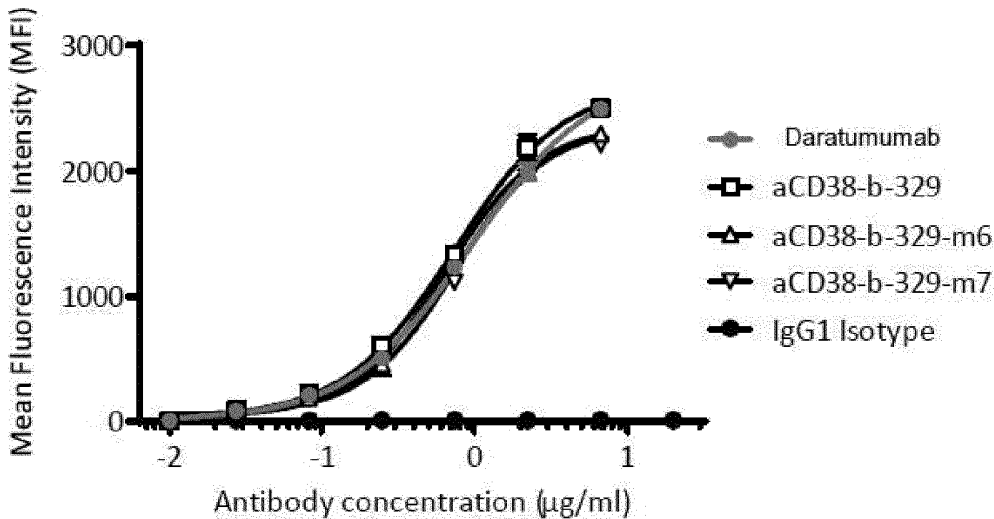


FIGURE 35

Daudi ADCC 4 hours Calcein AM Release
Donor 3627

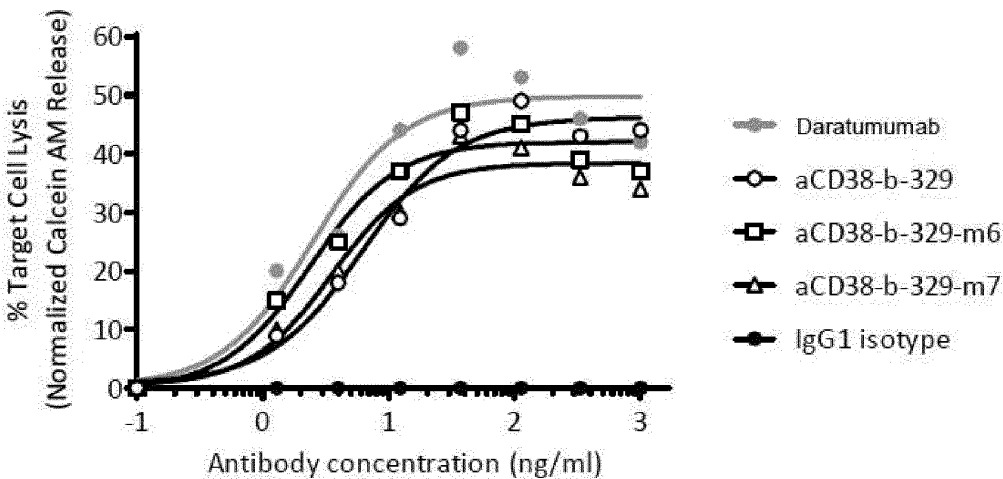


FIGURE 36

A)

aCD38-b-348-m1-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFS
LKLSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-348-m1-LCDR123

RASQSVRSSYLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTIS
RLEPEDFAVYYCQQEANVYT

B)

aCD38-b-348-m2-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFS
LKLSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-348-m2 LCDR123

RASQSVRSSYLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTIS
RLEPEDFAVYYCQQDSNVYT

C)

aCD38-b-348-m3 HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFS
LKLSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-348-m3-LCDR123

RASQSVRSSYLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTIS
RLEPEDFAVYYCQQDANVYT

D)

aCD38-b-348-m4-HCDR123

GSISSSDYYWGWIRQPPGKGLEWIGSIYYSGSTYYNPSLKSRVTISVDTSKNQFS
LKLSSVTAADTAVYYCARGQYSSGWYAYPFDM

aCD38-b-348-m4-LCDR123

RASQSVRSSYLAWYQQKPGQAPRLLIYGASSRATGIPDRFSGSGSGTDFTLTIS
RLEPEDFAVYYCQQEGNVYT

FIGURE 37

: Daudi Binding

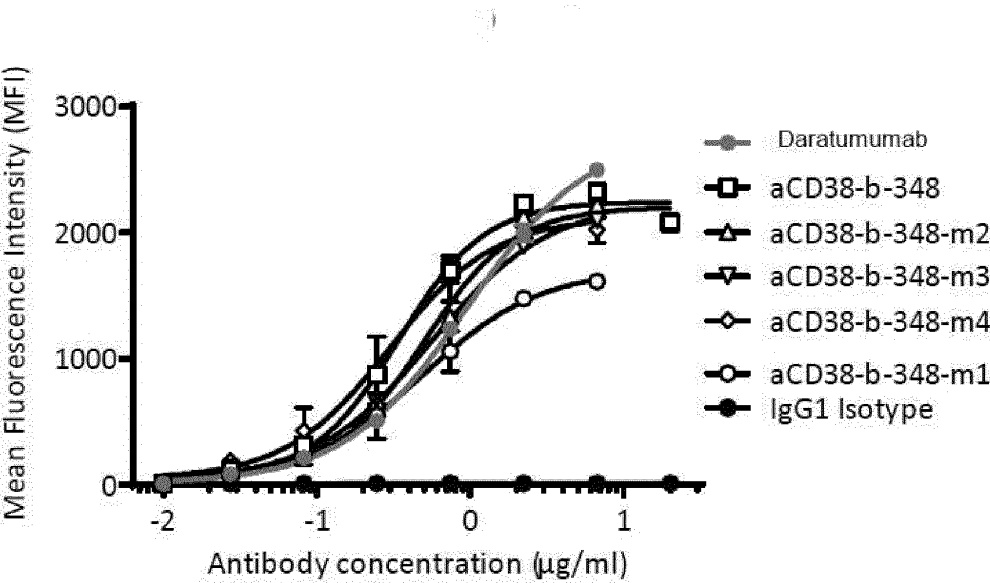


FIGURE 38

Daudi ADCC 4 hours Calcein AM Release
Donor 3627

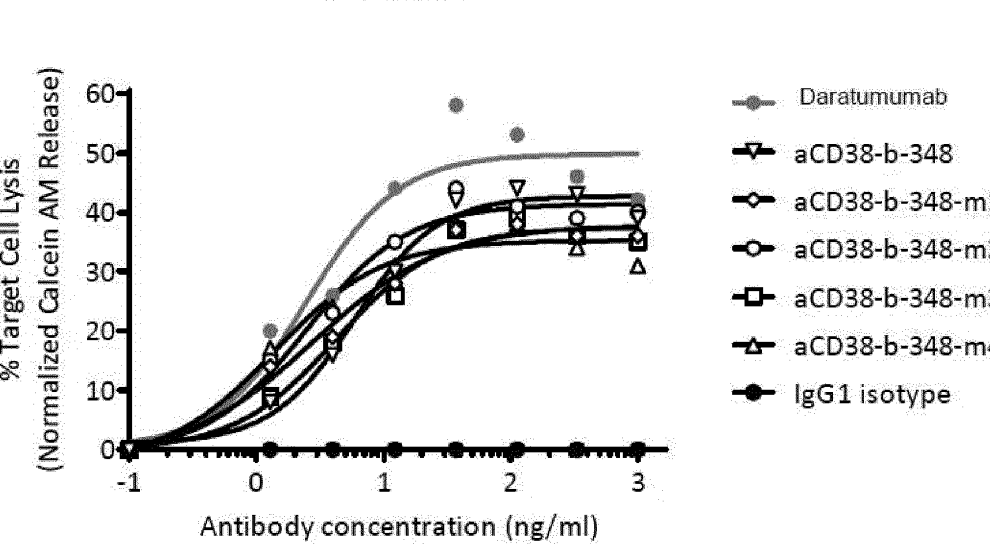


FIGURE 39

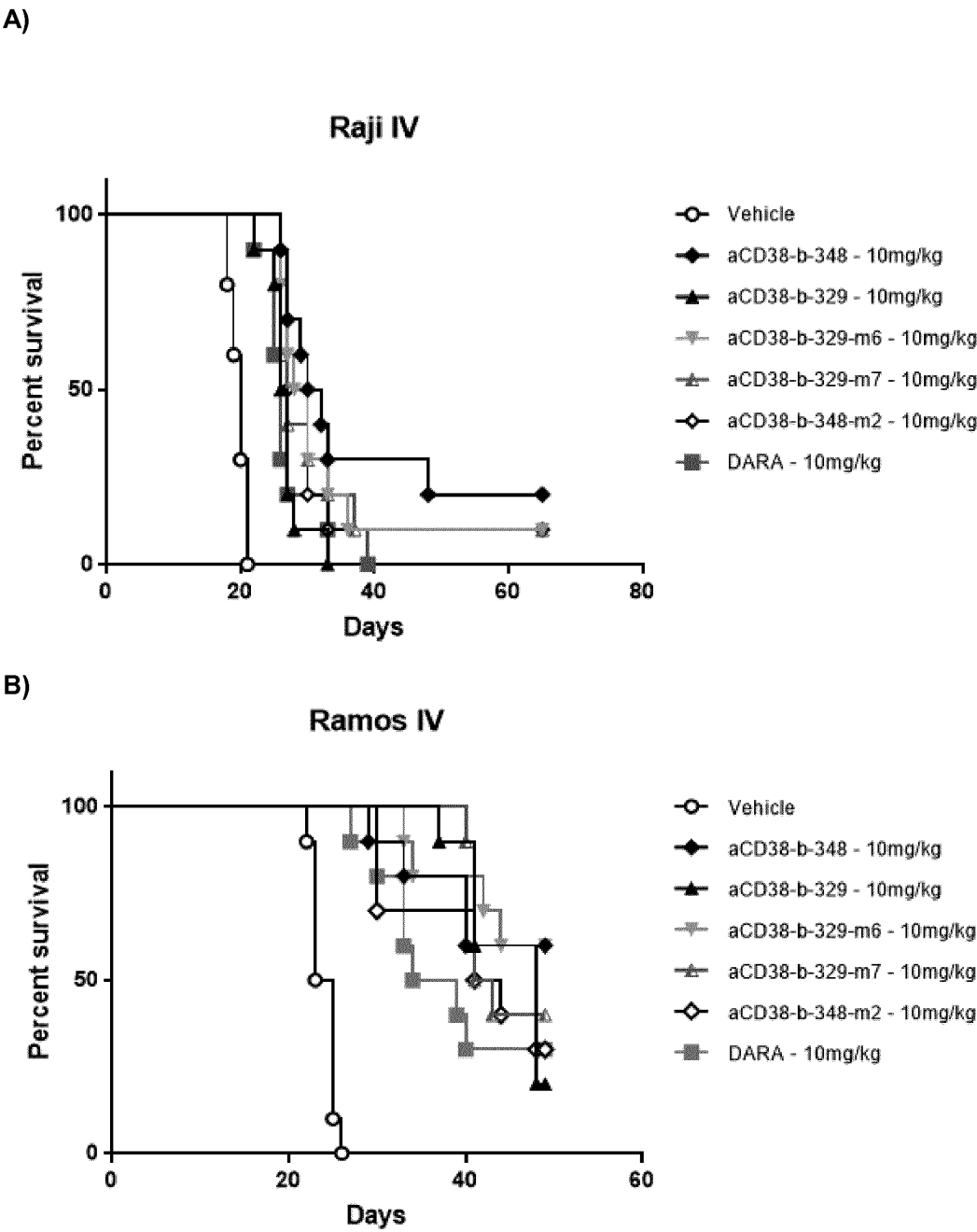


FIGURE 40

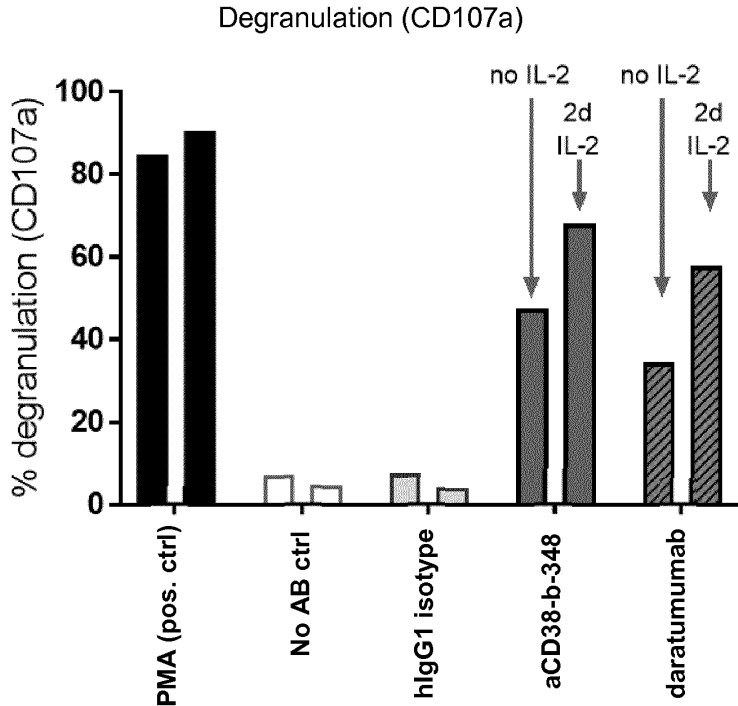


FIGURE 41

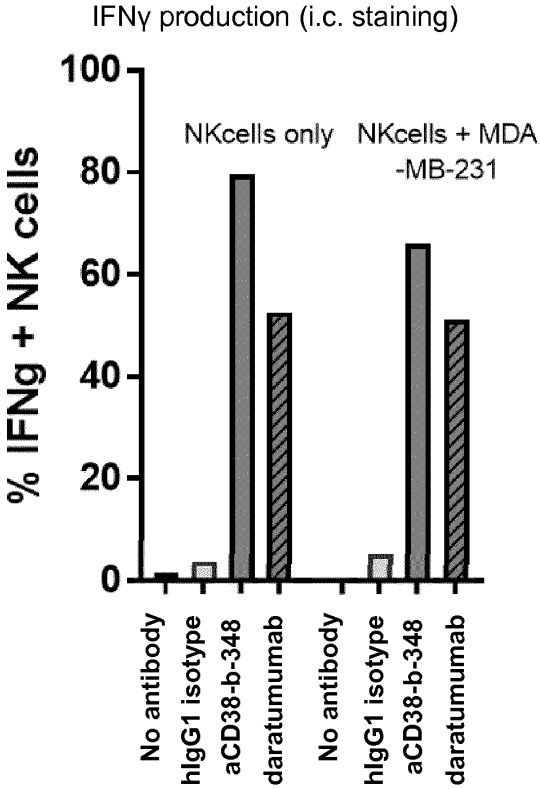
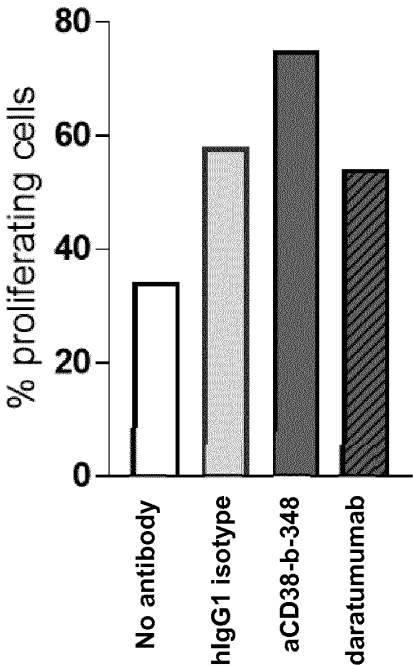


FIGURE 42

A)



B)

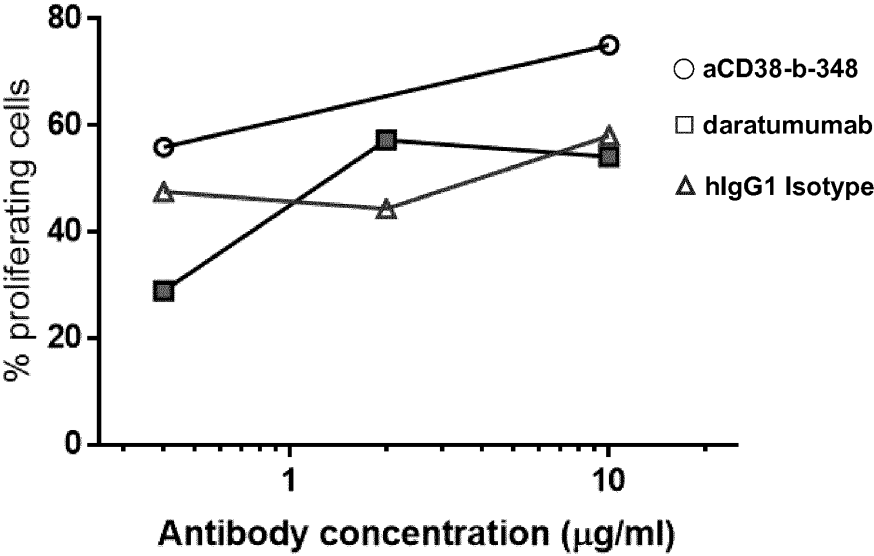
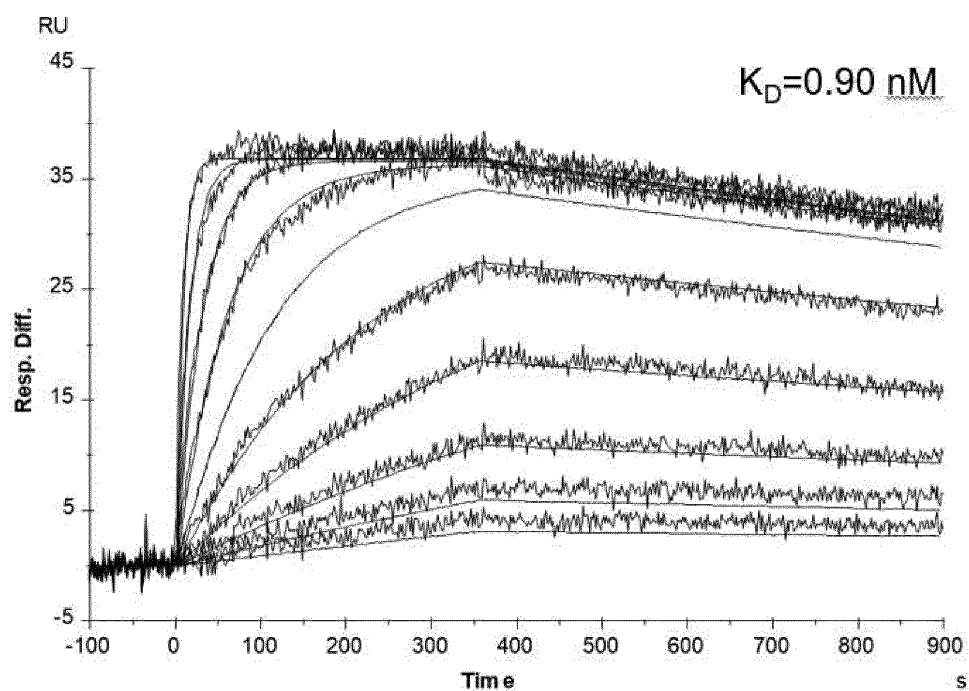


FIGURE 43

A)



B)

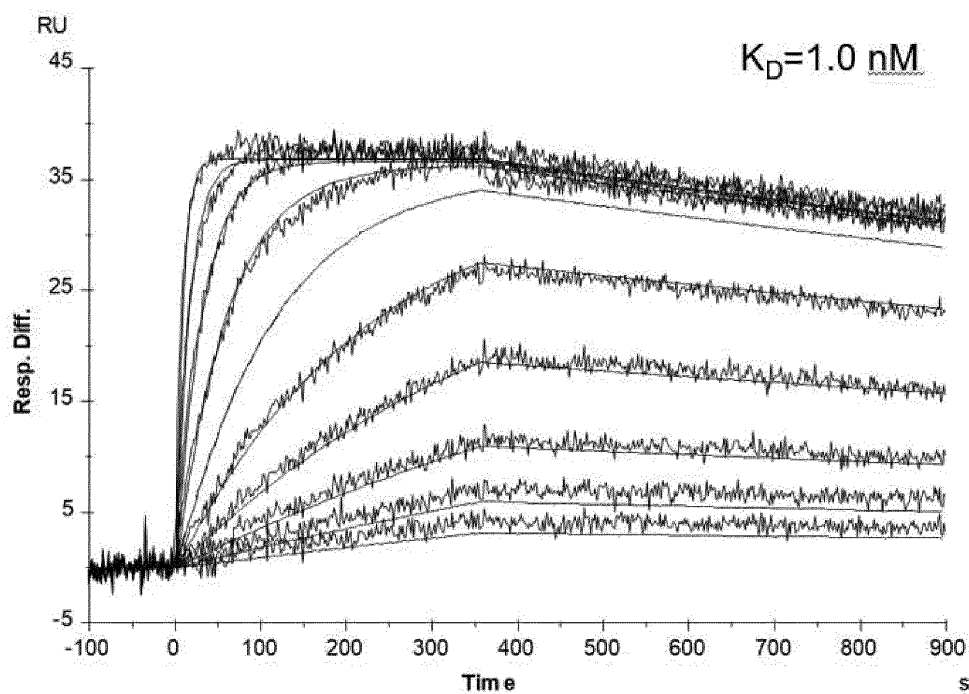
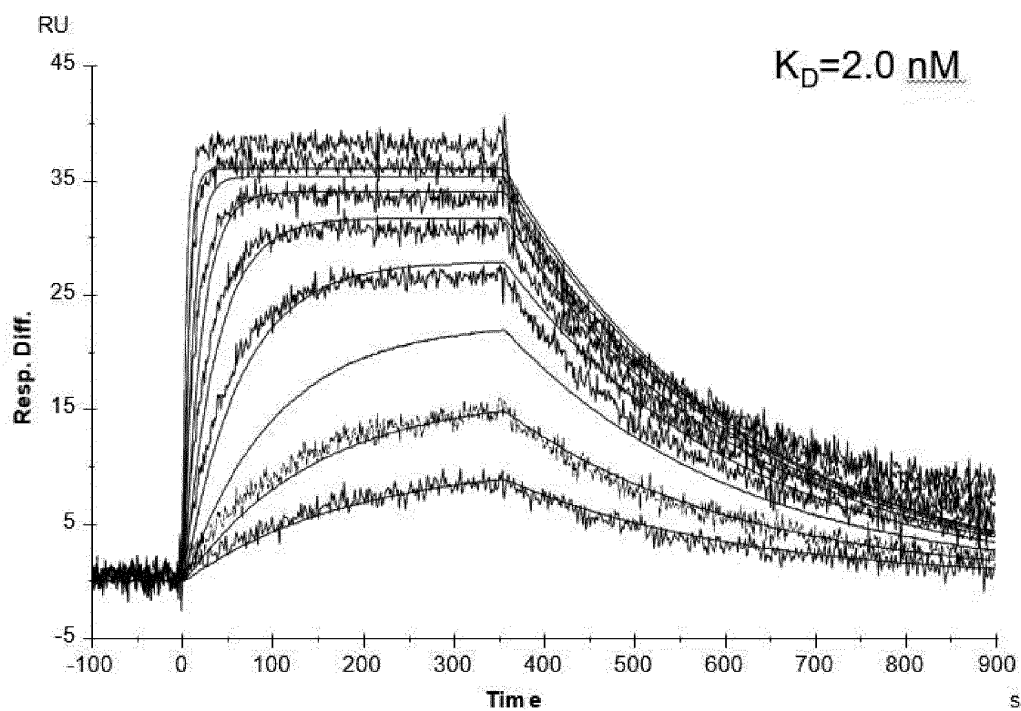


FIGURE 43 cont.

C)



D)

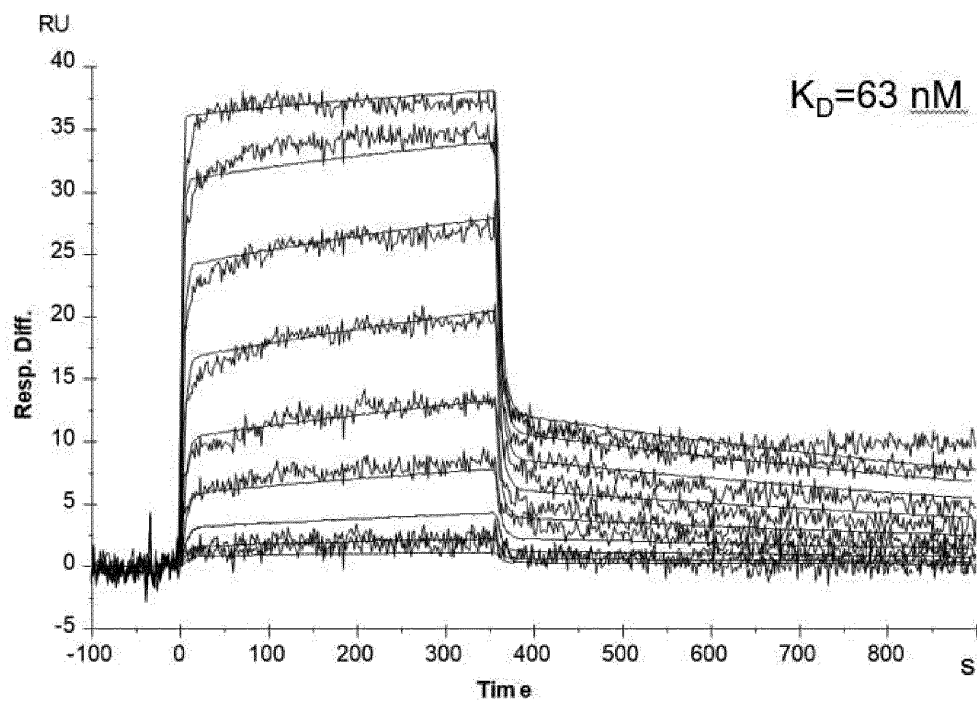
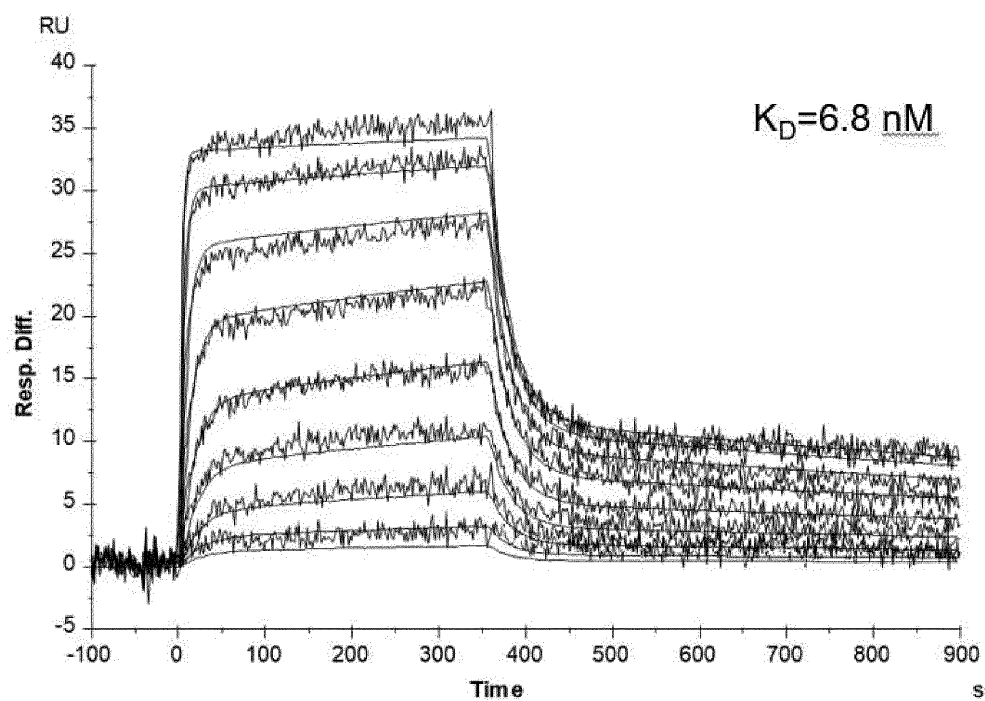


FIGURE 43 cont.

E)



F)

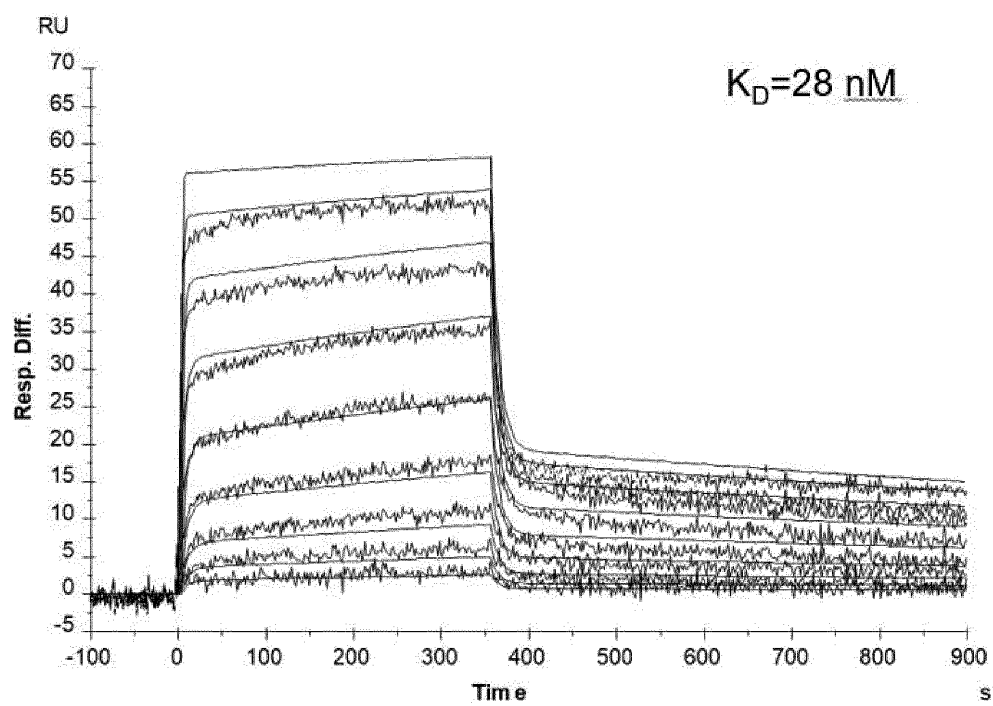
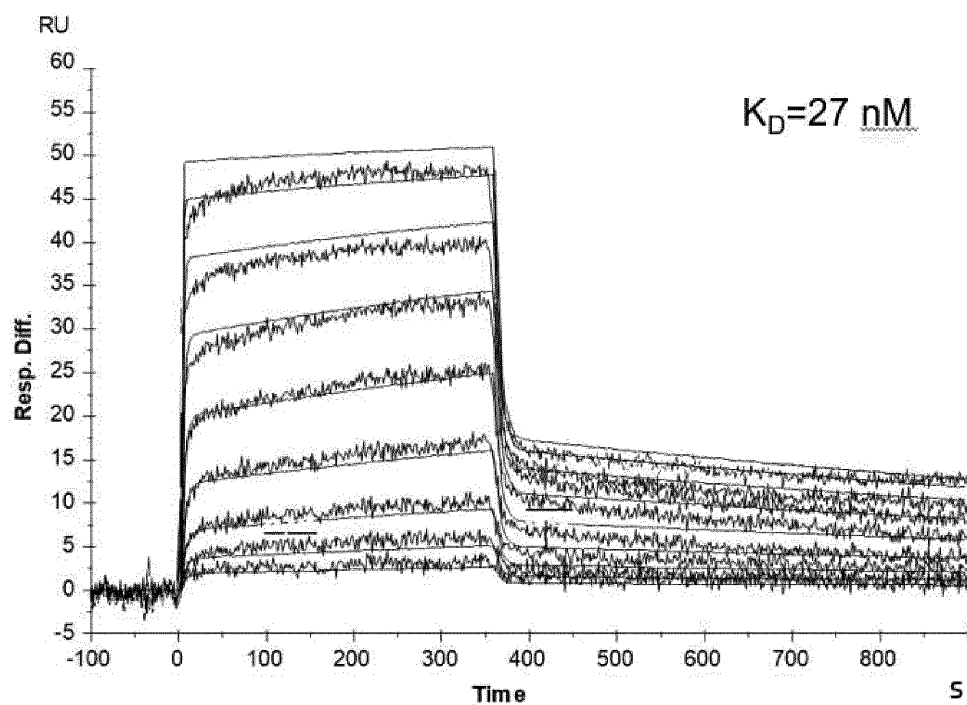


FIGURE 43 cont.

G)



H)

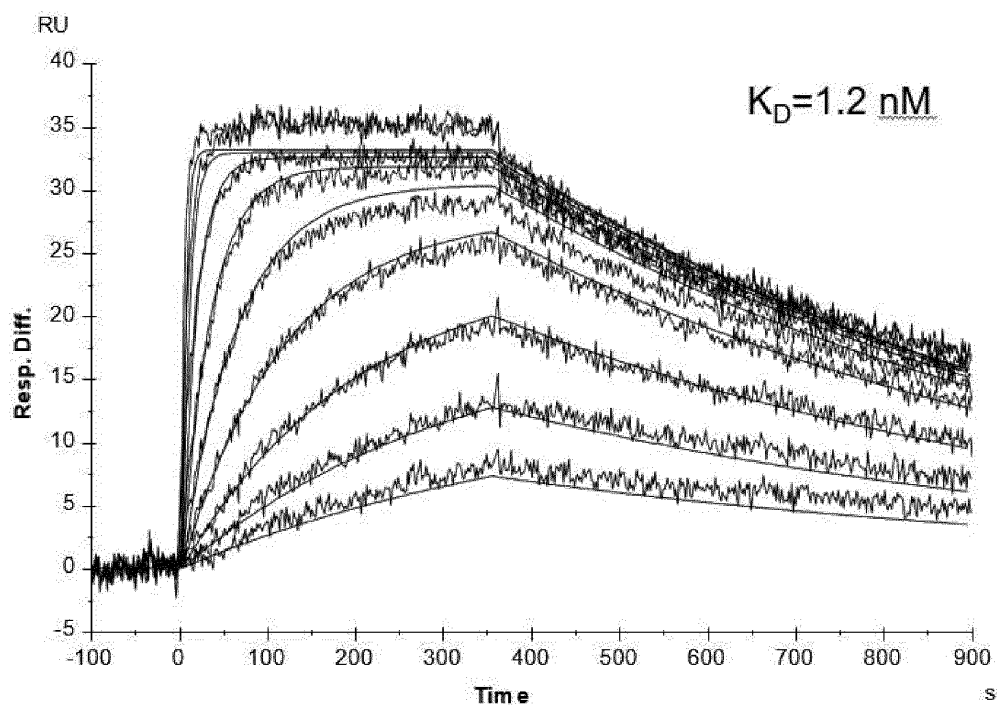
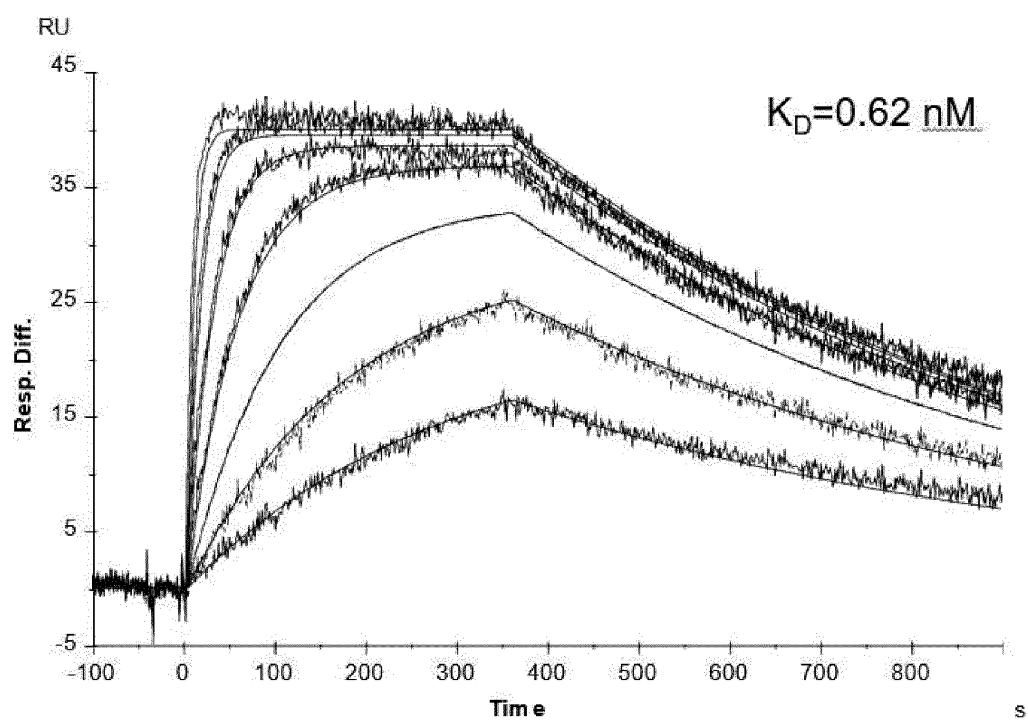


FIGURE 43 cont.

I)



J)

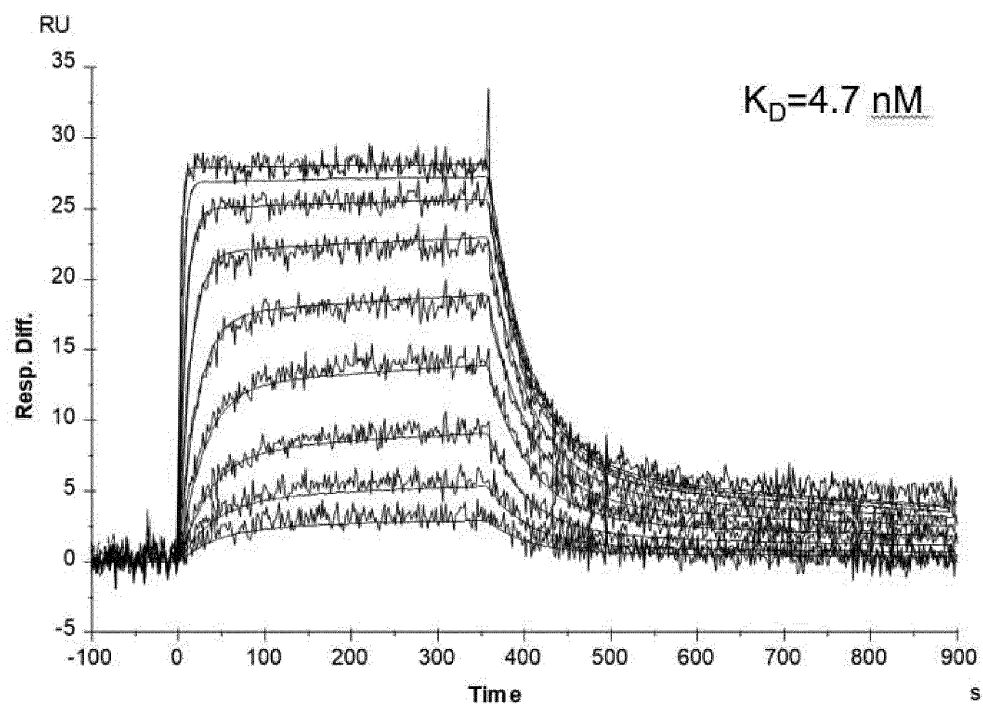


FIGURE 43 cont.

K)

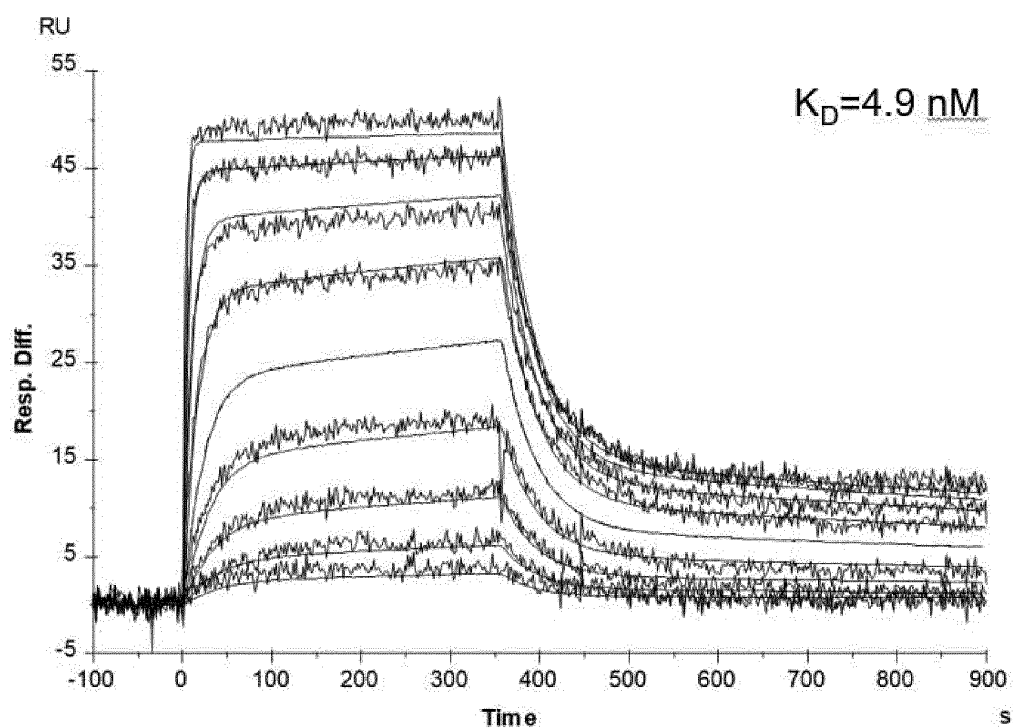


FIGURE 44

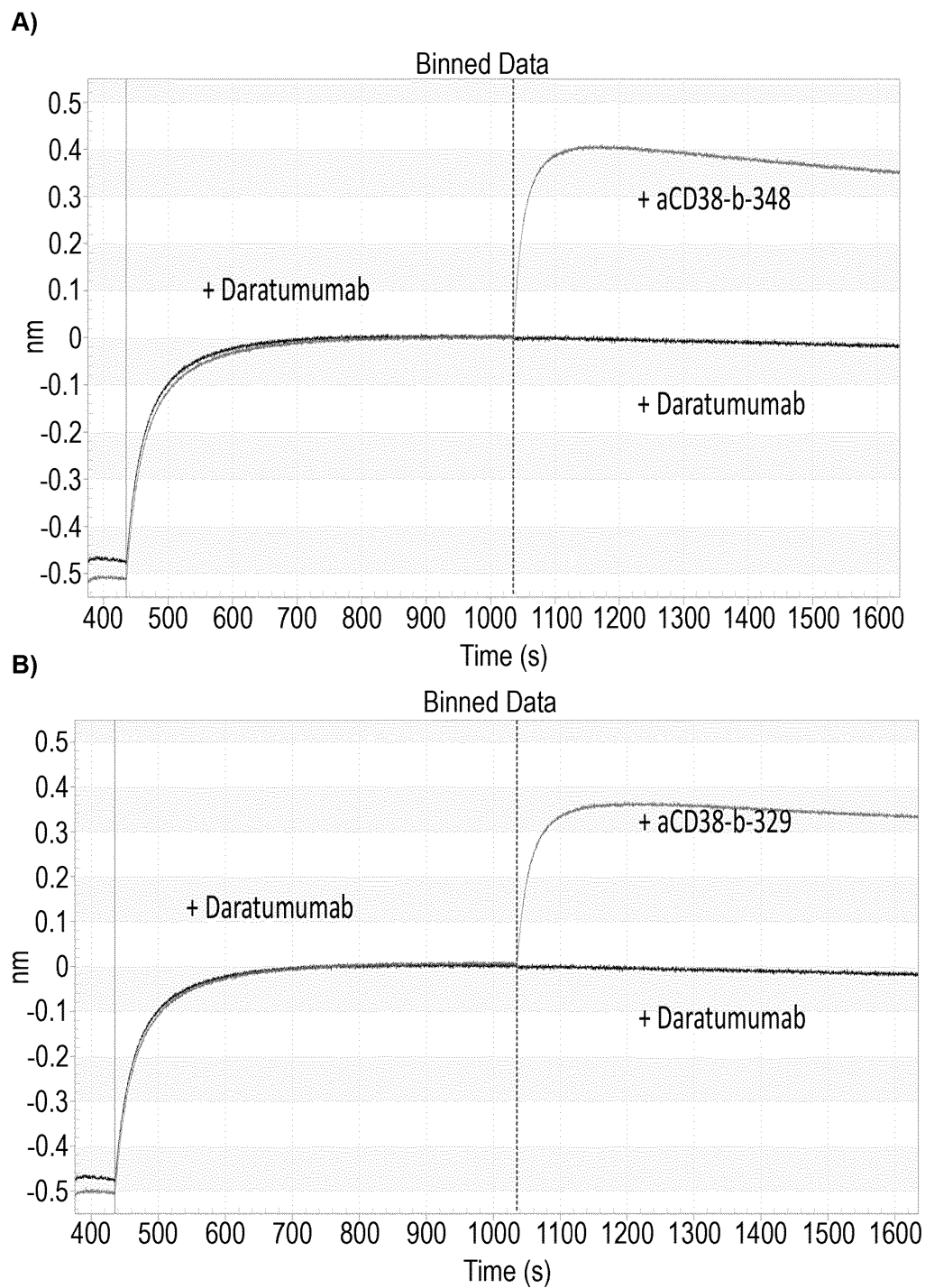
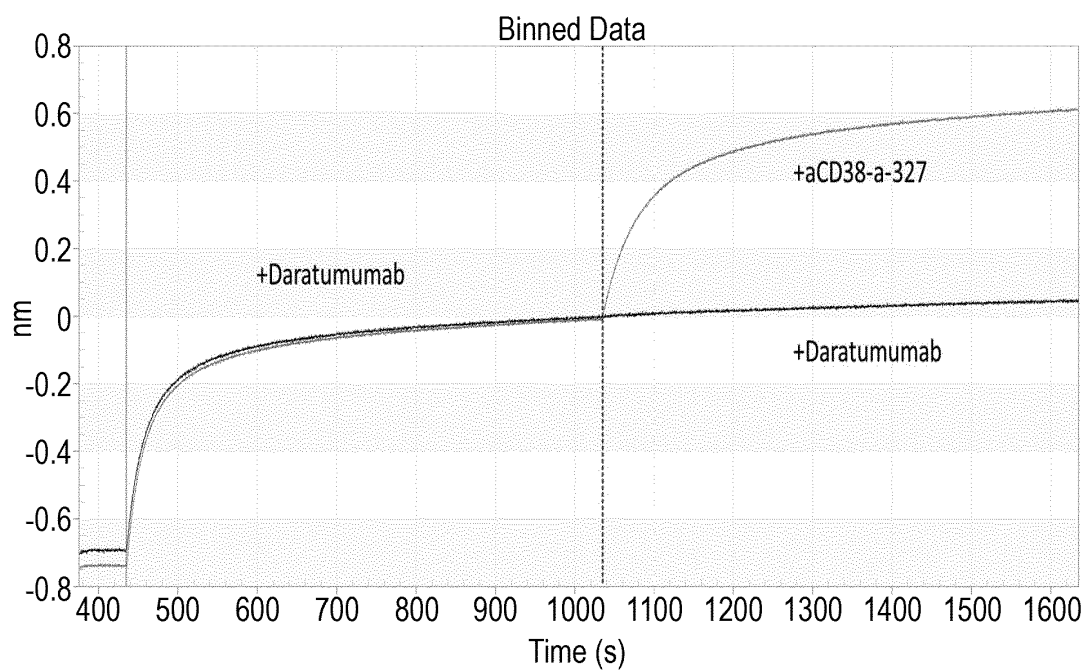


FIGURE 44 cont.

C)



D)

