

Attorney Docket No. 1337-WO-PCT

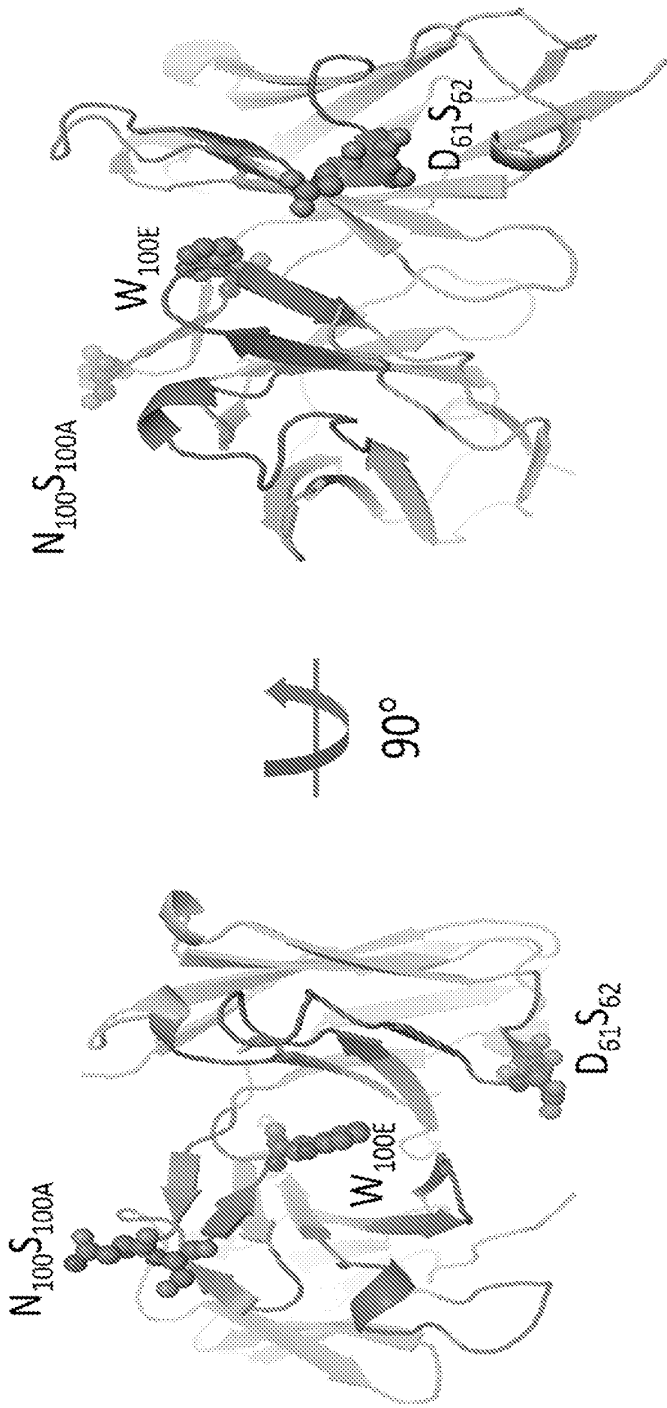


Fig. 1

mSP34_VH EVKLLESGGGLVQPKGLSLKLSCAASGFTFN**TYAMN**WVRQAPGKGLEWVARIRSKYNNYATYY
Comparator1_VH EVQLVESGGGLVQPGGSLRLSCAASGFTF**TYAMN**WVRQAPGKGLEWVGRIIRSKYNNYATYY
Comparator2_VH EVKLVESGGGLVQPGGSLRLSCAASGFTFN**TYALN**WVRQAPGKGLEWVARIRSKYNNYATYY
Comparator3_VH EVQLVESGGGLVQPGGSLRLSCAASGFTFN**TYAMN**WVRQAPGKGLEWVARIRSKYNNYATYY
Comparator4_VH EVQLLESGGGLVQPGGSLRLSCAASGFTF**STYAMN**WVRQAPGKGLEWVSRIRSKYNNYATYY
Comparator5_VH EVQLVESGGGLVQPGGSLRLSCAASGFTF**TYAMN**WVRQAPGKGLEWVGRIIRSKYNNYATYY

mSP34_VH **ADSVKDRFTISRDDSQSILYLQMN**NLKTEDTAMYVCVR**HG**NFGNSYVS**WFAYWGQ**GLVTVSA
Comparator1_VH **ADSVKDRFTISRDDSKNSLYLQMN**SLKTEDTAVYCVR**HG**NFGNSYVS**WFAYWGQ**GLVTVSS
Comparator2_VH **ADSVKDRFTISRDDSKSSLYLQMN**NLKTEDTAVYCVR**HG**NFGNSYVS**WFAYWGQ**GLVTVSS
Comparator3_VH **AASVKGRFTISRDDSKNSLYLQMN**SLKTEDTAVYCAR**HG**NFGNSYVS**WFAYWGQ**GLVTVSS
Comparator4_VH **ADSVKGRFTISRDDSKNTLYLQMN**SLRAEDTAVYCVR**HG**NFGNSYVS**WFAYWGQ**GLVTVSS
Comparator5_VH **ADSVKGRFTISRDDSKNTLYLQMN**SLRAEDTAVYCVR**HG**NFGNSYVS**WFAYWGQ**GLVTVSS

Fig. 2A

mSP34_VL QAVVTQESALTTSPGETVTLTCRSSTGAVTTSNYANWVQEKPDHLETGLIGGTTNKRAPG
Comparator1_VL QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGTTNKRAPW
Comparator2_VL QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGTTNKRAPG
Comparator3_VL QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGTTNKRAPG
Comparator4_VL QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGTTNKRAPG
Comparator5_VL QAVVTQEPSTLVSPGGTVTLTCRSSTGAVTTSNYANWVQKPGQAPRGLIGGTTNKRAPG

mSP34_VL VPARFSGSLIGDKAALTITGAQTEDEAIYFCALWYSNLWVFGGGTKLTVL
Comparator1_VL TPARFSGSLIGDKAALTITGAQTEDEADYFCALWYSNLWVFGGGTKLTVL
Comparator2_VL VPARFSGSLIGDKAALTITGAQADDESIFYFCALWYSNLWVFGGGTKLTVL
Comparator3_VL TPARFSGSLIGDKAALTISGVQPEDEAEYFCALWYSNLWVFGGGTKLTVL
Comparator4_VL TPARFSGSLIGDKAALTISGAQPEDEAEYFCALWYSNLWVFGGGTKLTVL
Comparator5_VL VPARFSGSLIGDKAALTISGAQPEDEADYFCALWYSNLWVFGGGTKLTVL

Fig. 2B

4/47



Fig. 3

mSP34	EVKLES	GGGLVQPKGSLKLS	CAASGFTF	NTYAMN	WVRQAP	GKGLEW	VARIR	SKYNNY	ATYYA
IGHV3-72_IGHJ6	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDHYMD	WVRQAP	GKGLEW	VGRTR	NKANSY	TTTEYA
huSP34_HC1	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	NTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC2	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC3	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	NTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC4	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC5	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	NTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC6	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC7	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC8	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC9	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
huSP34_HC10	EVQLVES	GGGLVQPGSLRLS	CAASGFTF	SDTYAMN	WVRQAP	GKGLEW	VGRIR	SKYNNY	ATYYA
mSP34	DSVKDR	FTISR	DDSQSILYLQ	MN	LKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSA
IGHV3-72_IGHJ6	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AVYYCARY	-----	YFDYWG	QGGLTVTVSS
huSP34_HC1	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC2	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC3	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC4	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC5	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC6	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC7	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC8	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC9	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS
huSP34_HC10	ASVKGR	FTISR	DDSKNSLYLQ	MN	SLKTEDT	AMYYCVR	HGNF	CNSYVS	WFAVWGQGLTVTVSS

Fig. 4A

mSP34	QAVVTQESALTTSPGETVTLTCRSSTGAVTTSNYANWVQEKPDHLFTGLIGGTNKRAPG
IGLV7-46__IGLJ3	QAVVTQEP SLTVSPGGTVTLTCGSSTGAVTSGHYPYWFQOKPGQAPRTLIIYDTSNKHSH
huSP34__LC1	QAVVTQEP SLTVSPGGTVTLTCRSSTGAVTTSNYANWVQOKPGQAPRGLIGGTNKRAPW
huSP34__LC2	QAVVTQEP SLTVSPGGTVTLTCGSSTGAVTTSNYANWVQOKPGQAPRGLIGGTSNRAPW
huSP34__LC3	QAVVTQEP SLTVSPGGTVTLTCGSSTGAVTTCHYANWVQOKPGQAPRGLIGGTNKRAPW
huSP34__LC4	QAVVTQEP SLTVSPGGTVTLTCGSSTGAVTTSHYANWVQOKPGQAPRGLIGGTSKRAPW
huSP34__LC5	QAVVTQEP SLTVSPGGTVTLTCGSSTGAVTTCHYANWVQOKPGQAPRGLIGGTSNRAPW
huSP34__LC6	QAVVTQPP SLTVSPGGTVTLTCGSSTGAVTTCHYANWVQOKPGQAPRGLIGGTSNRAPG
mSP34	VPAFFSGSLIGDKAALTITGAQTEDEAIYFCALWYSNLWVFGGKLTIVL
IGLV7-46__IGLJ3	TPARFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC1	TPARFSGSLIGDKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC2	TPARFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC3	TPARFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC4	TPARFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC5	TPARFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL
huSP34__LC6	VPAFFSGSLIGGKAALTLSGAQPEDEAEYVCLLSYSARWVFGGKLTIVL

Fig. 4B

mSP34	EVKLLESGGGLVQPKGSLKLSCAASGFTFNTYAMN	WVRQAPGKGLEWVARI	RSKYN	NYATYYA
IGHV3-72__IGHJ6	EVQLVESGGGLVQPGGSLRLSCAASGFTFS	DHYMDWVRQAPGKGLEWVGR	TRNKANSY	TTEYA
huSP34__HC3	EVQLVESGGGLVQPGGSLRLSCAASGFTFNTYAMN	WVRQAPGKGLEWVGR	IRSKYN	NYATYYA
huSP34__HC11	EVQLVESGGGLVQPGGSLRLSCAASGFTFS	TYAMN	WVRQAPGKGLEWVGR	IRSKYN
huSP34__HC12	EVQLVESGGGLVQPGGSLRLSCAASGFTFS	TYAMN	WVRQAPGKGLEWVARI	RSKYN
huSP34__HC13	EVQLVESGGGLVQPGGSLRLSCAASGFTFS	TYAMN	WVRQAPGKGLEWVGR	IRSKYN
mSP34	DSVKDRFTISRDDSQSILYLQMN	NLKTEDTAMYYCVR	HGNF	CNSYVS
IGHV3-72__IGHJ6	ASVKGRFTISRDDSKNSLYLQMN	SLKTEDTAVYYCARY	-----YFDY	WGQGLVTVSS
huSP34__HC3	DSVKGRFTISRDDSKNSLYLQMN	SLRTEDTAVYYCVR	HGNF	GHSYVS
huSP34__HC11	ASVKGRFTISRDDSKNSLYLQMN	SLRTEDTAVYYCVR	HGNF	GHSYVS
huSP34__HC12	ASVKGRFTISRDDSKNSLYLQMN	SLRTEDTAVYYCVR	HGNF	GHSYVS
huSP34__HC13	ASVKGRFTISRDDSKNTLYLQMN	SLRTEDTAVYYCVR	HGNF	GHSYVS

Fig. 5A

mSP34 QAVVTQESALTTSPGETVTTLTCRSSSTGAVTTSNYANWVQEKPDHIFTGLIGGTTNKRAPG
IGLV7-46__IGLJ3 QAVVTQEPSTLVSPGGTVTTLTCSSSTGAVTSGHYPYWFQQKPGQAPRTLIIYDTSNKHWS
huSP34__LC7 QAVVTQEPSTLVSPGGTVTTLTCRSSSTGAVTTHYANWVQOKPGQAPRGLIGGTTNKRAPG
huSP34__LC8 QAVVTQEPSTLVSPGGTVTTLTCSSSTGAVTTHYANWVQOKPGQAPRGLIGGTTNKRAPG
huSP34__LC9 QAVVTQPPSTLVSPGGTVTTLTCSSSTGAVTTHYANWVQOKPGQAPRGLIGGTTNKRAPG
huSP34__LC10 QAVVTQPPSTLVSPGGTVTTLTCSSSTGAVTTHYANWVQOKPGQAPRGLIGGTTNKRAPG

mSP34 VPARESGSLIGDKAALTITGAQTEDEAIYFCALWYSNLMWVFGGTTKLTVL
IGLV7-46__IGLJ3 TPARESGSLIGGKAALTISGAQPEDEAEYCYLLSYSARWVFGGTTKLTVL
huSP34__LC7 VPARESGSLIGGKAALTISGAQPEDEAEYCYALWYSNLMWVFGGTTKLTVL
huSP34__LC8 VPARESGSLIGGKAALTISGAQPEDEAEYCYALWYSNRWVFGGTTKLTVL
huSP34__LC9 VPARESGSLSGGKAALTISGAQPEDEAEYCYALWYSNLMWVFGGTTKLTVL
huSP34__LC10 VPARESGSLSGGKAALTISGAQPEDEAEYCYALWYSNRWVFGGTTKLTVL

Fig. 5B

Fig. 6B

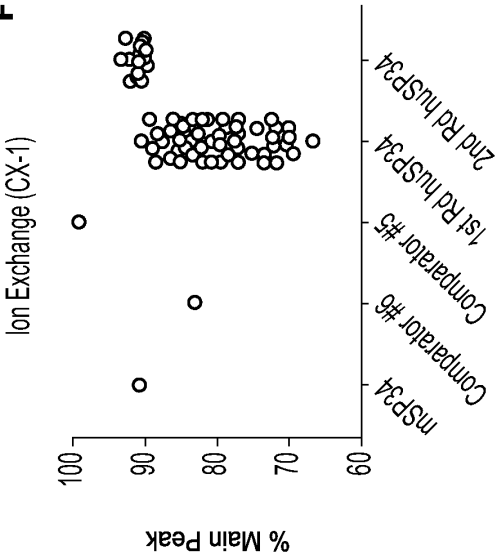


Fig. 6D

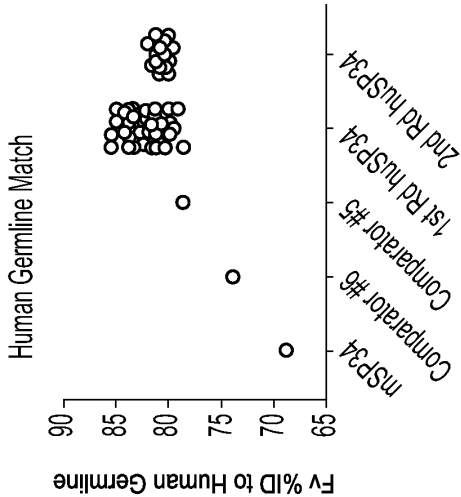


Fig. 6A CD3 Affinity (Octet BLI)

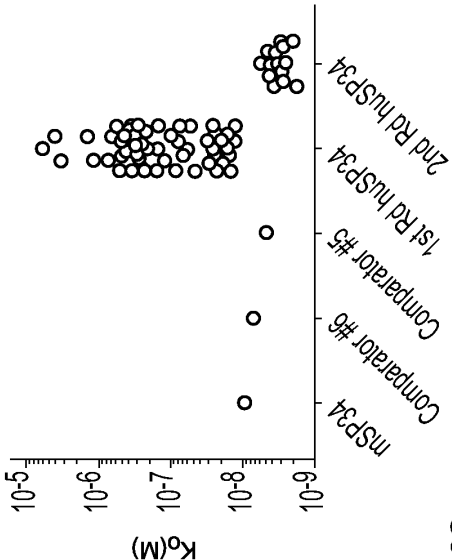
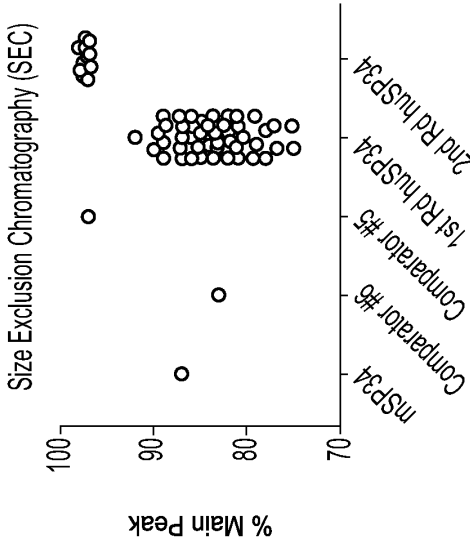


Fig. 6C



Figs. 6A-D

10/47

Attorney Docket No. 1337-WO-PCT

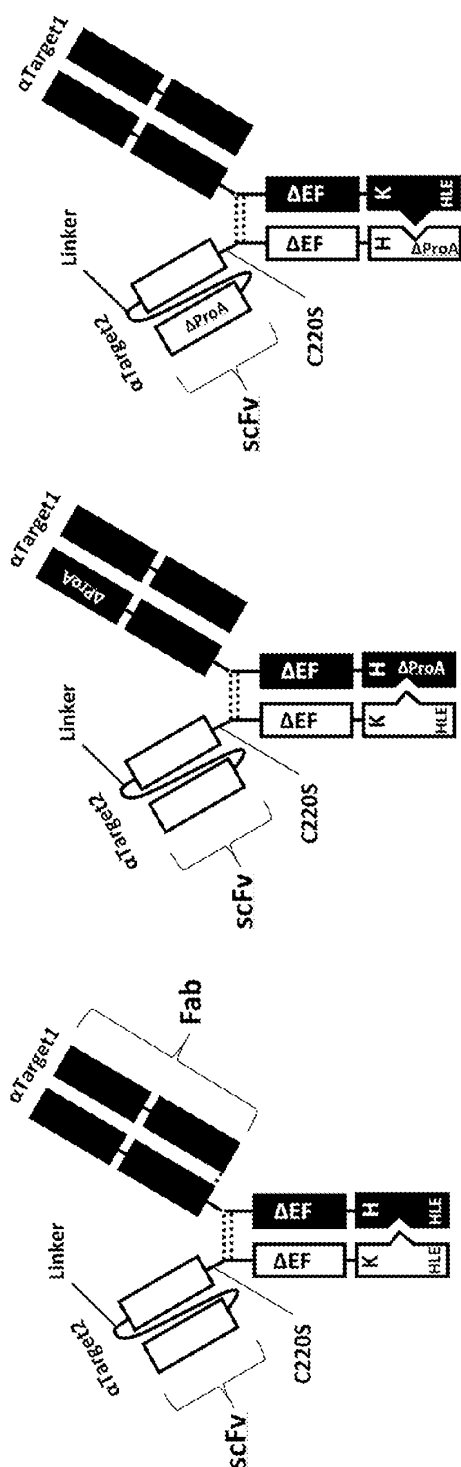


Fig. 7A

11/47

Attorney Docket No. 1337-WO-PCT

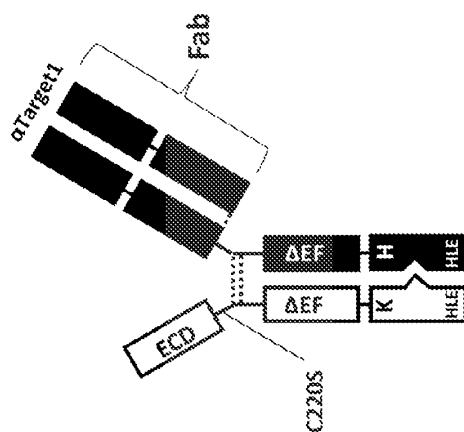
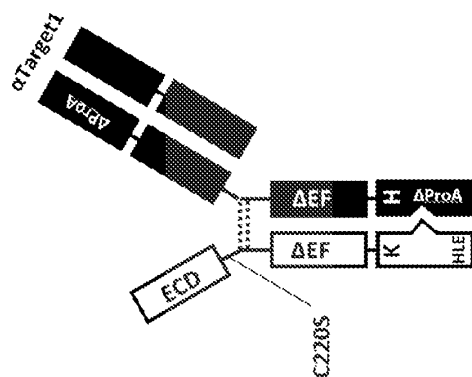
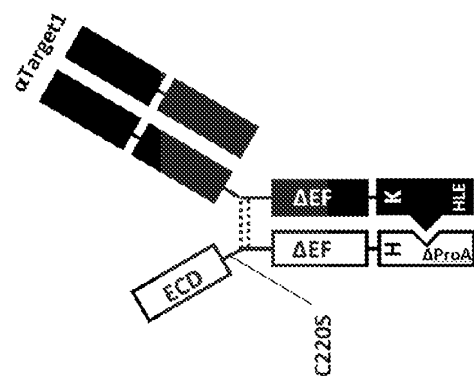


Fig. 7B

Attorney Docket No. 1337-WO-PCT

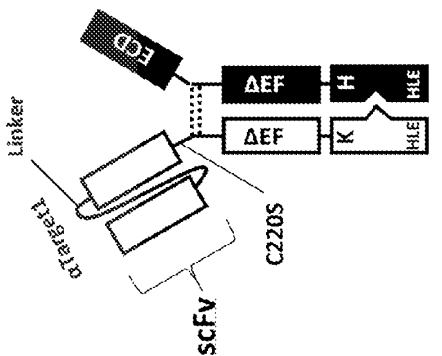
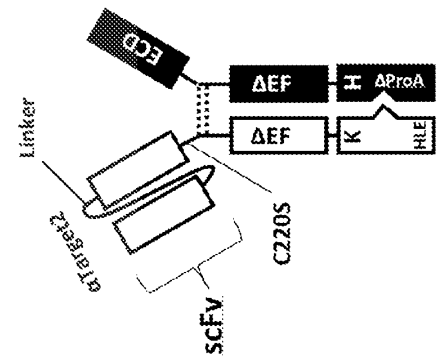
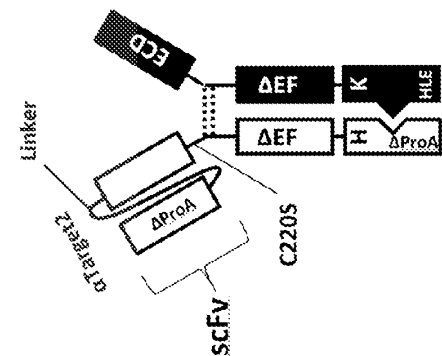


Fig. 7C

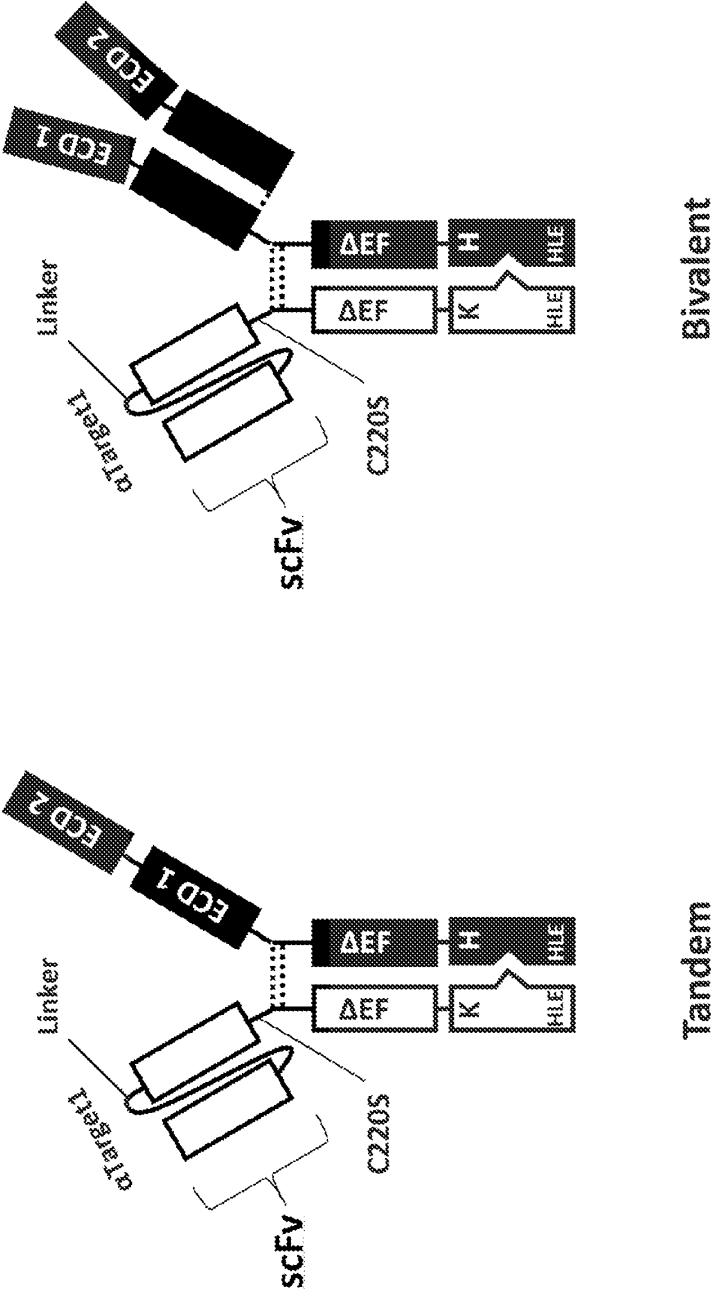
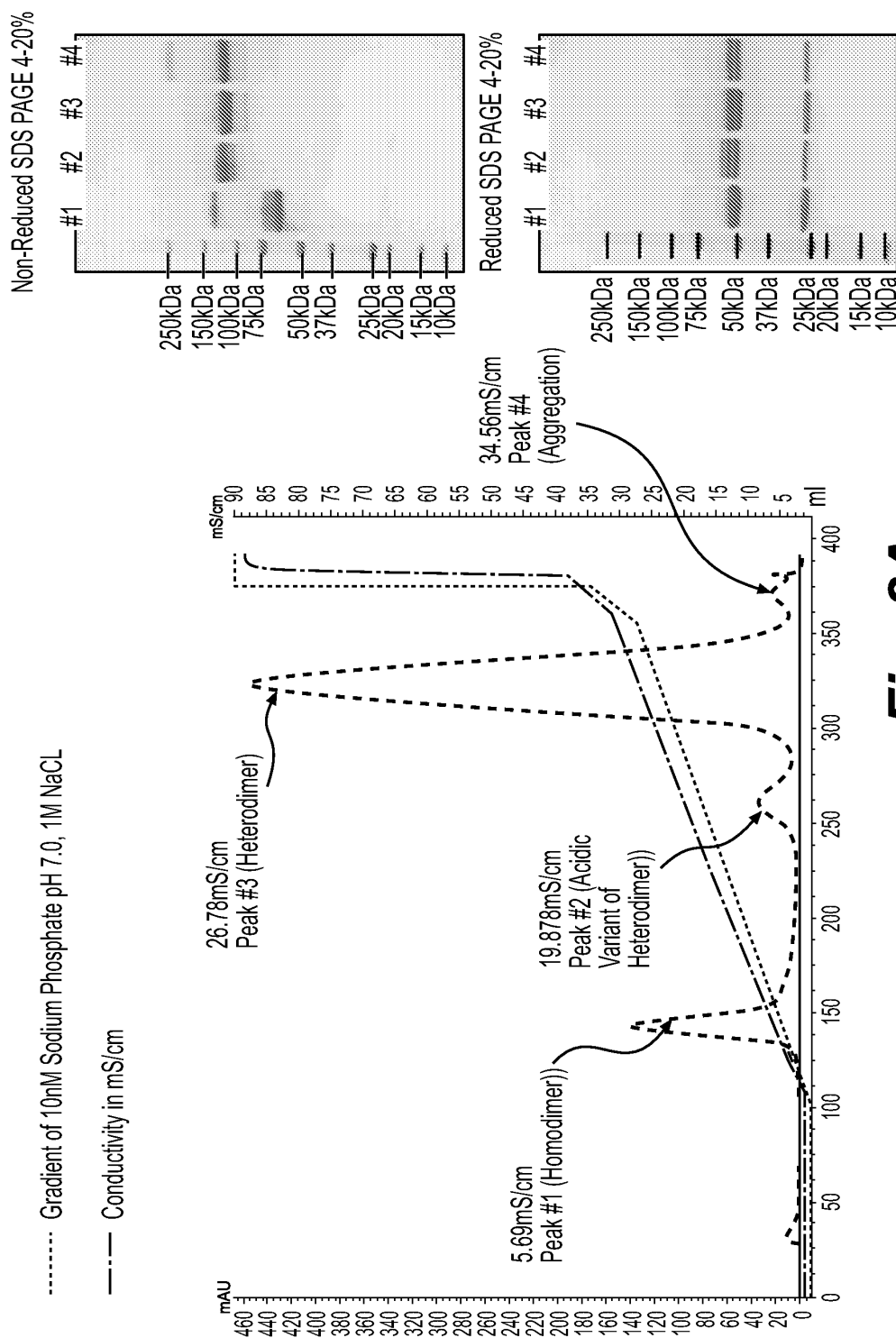


Fig. 7D



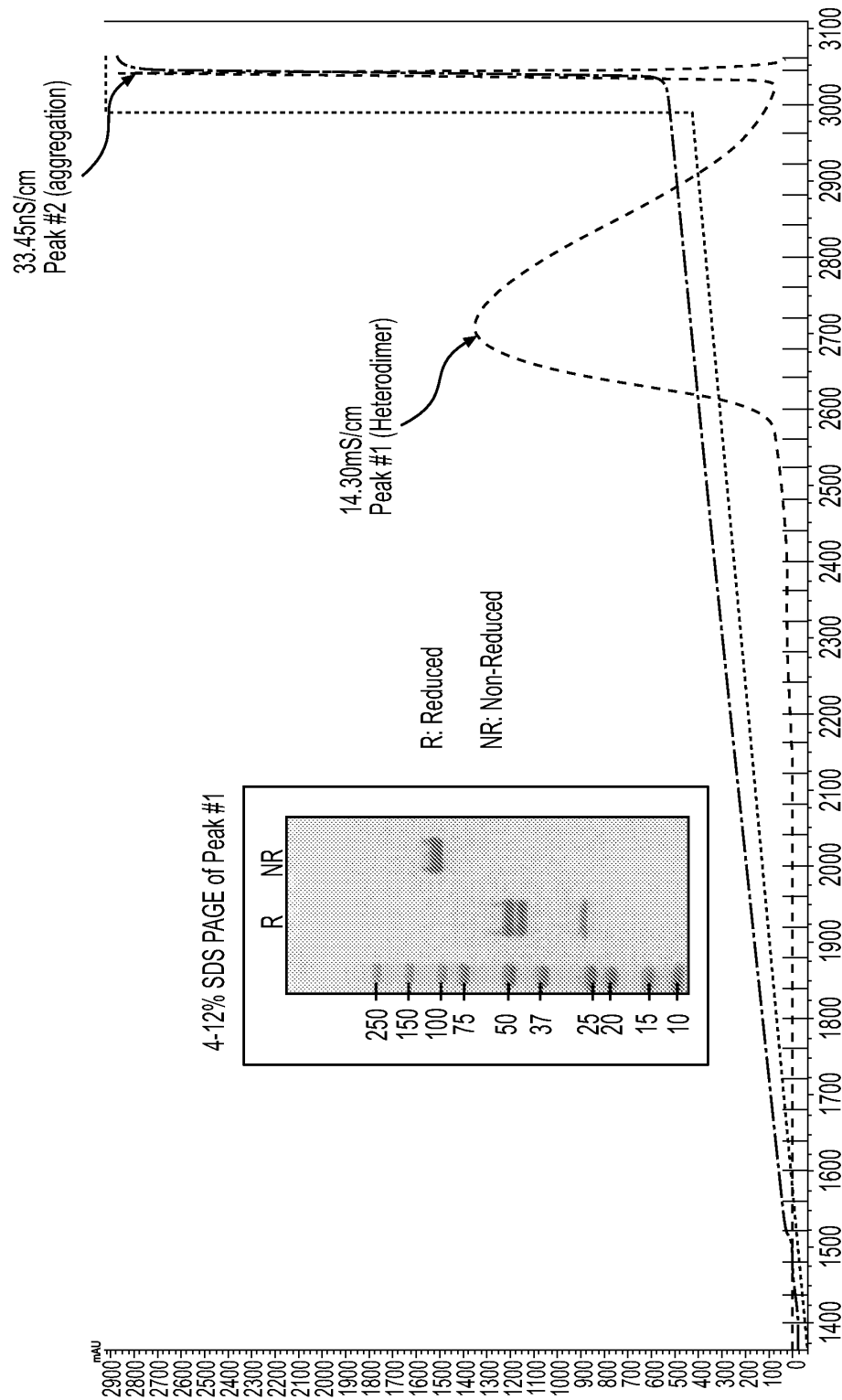


Fig. 8B

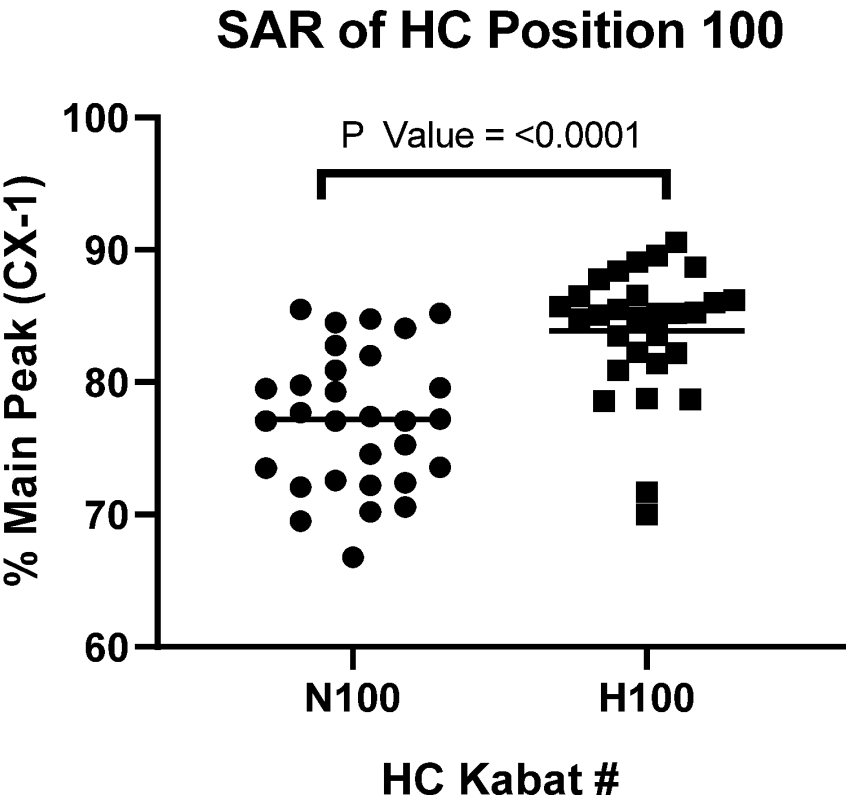
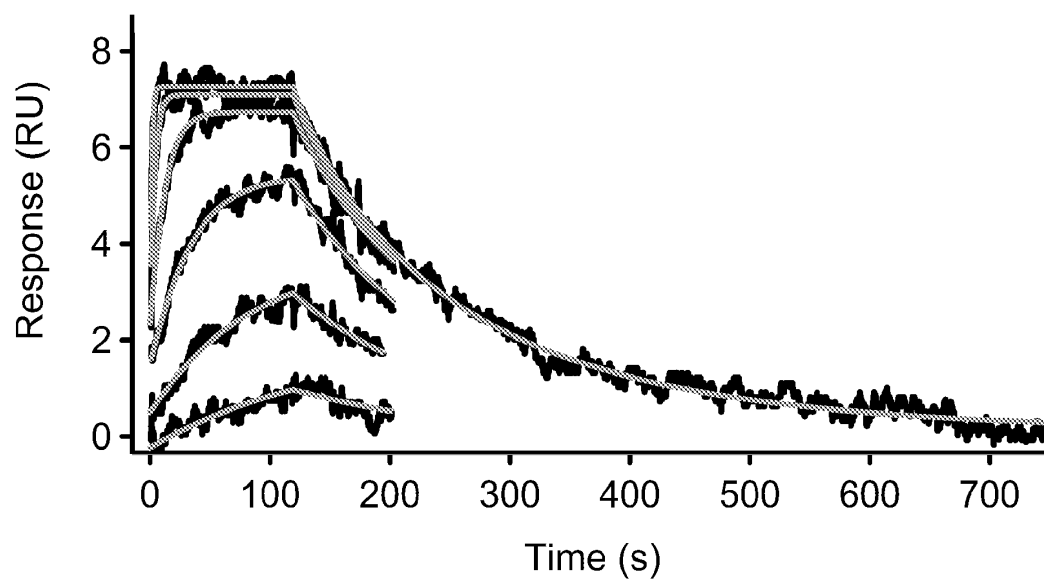
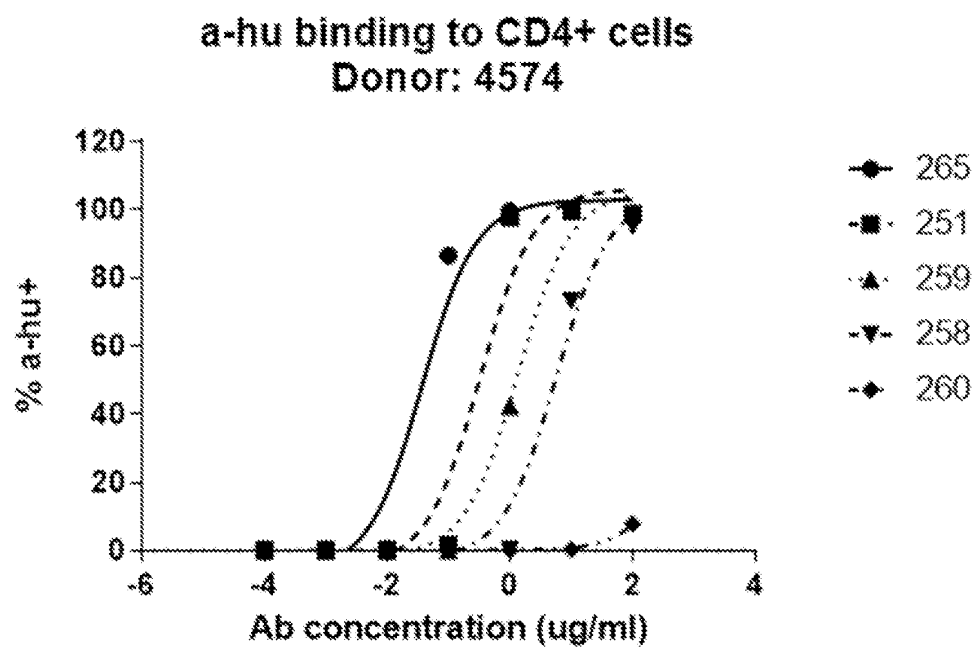


Fig. 9

17/47**Fig. 10**

18/47**Fig. 11**

19/47

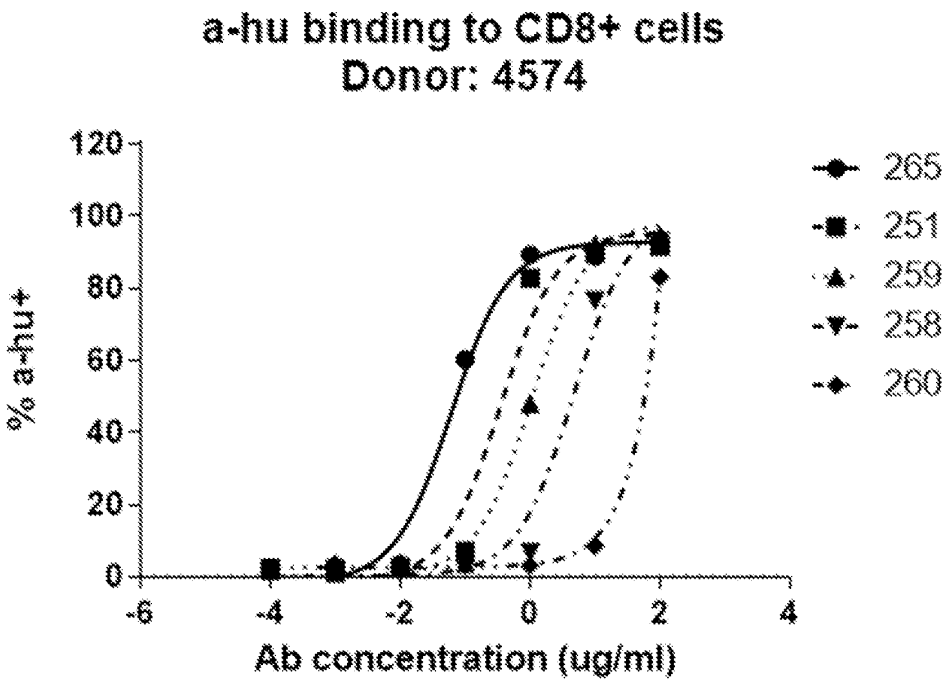
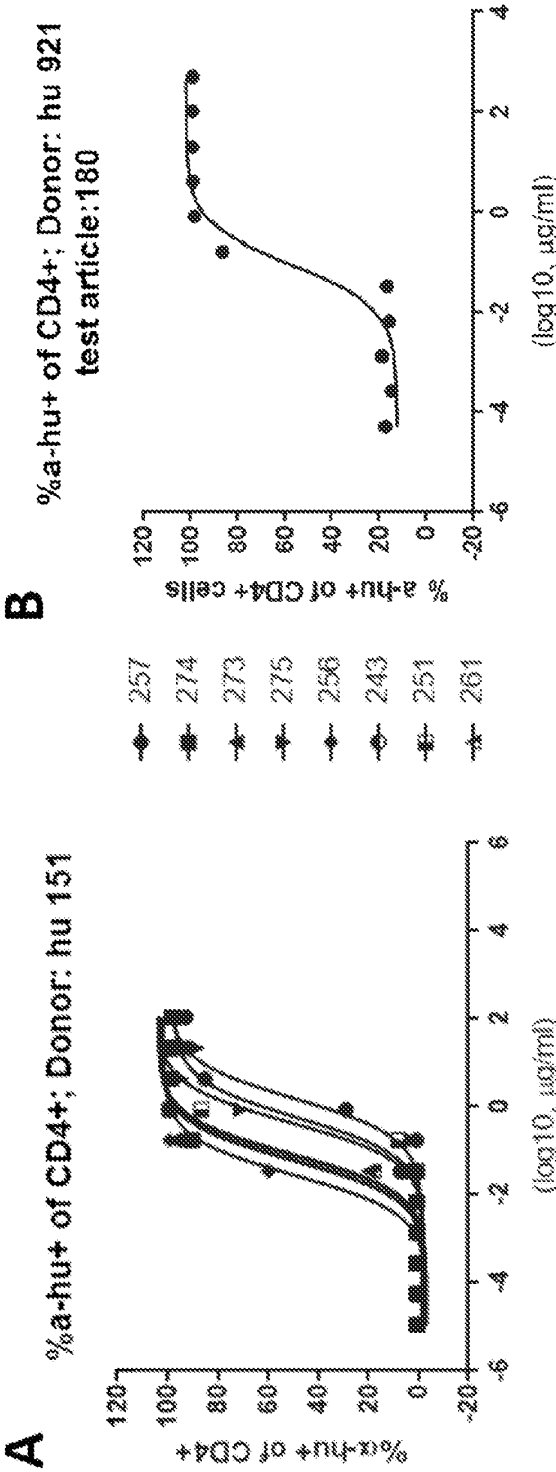
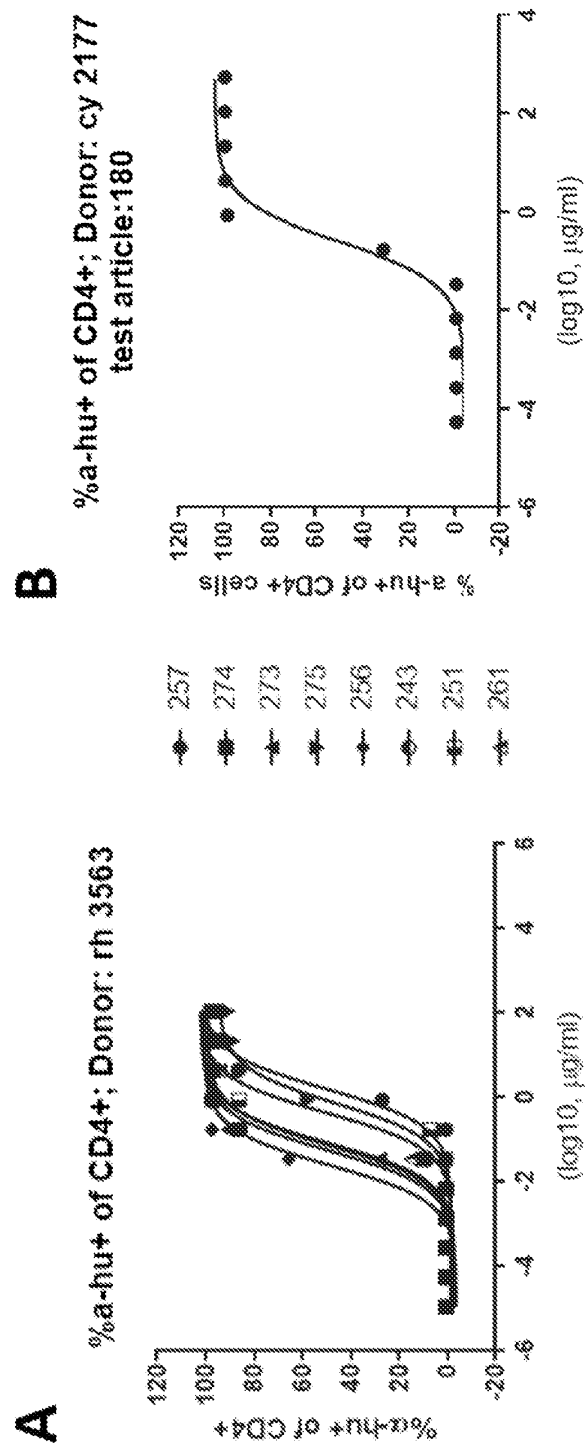


Fig. 12

Attorney Docket No. 1337-WO-PCT

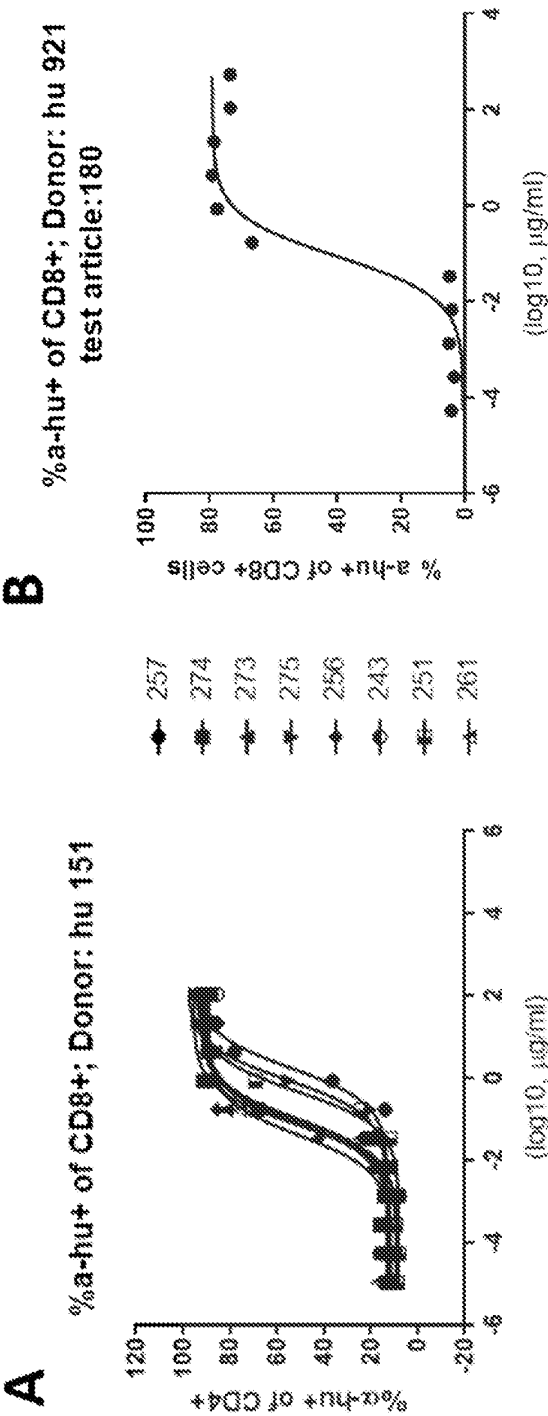


Figs. 13A-13B

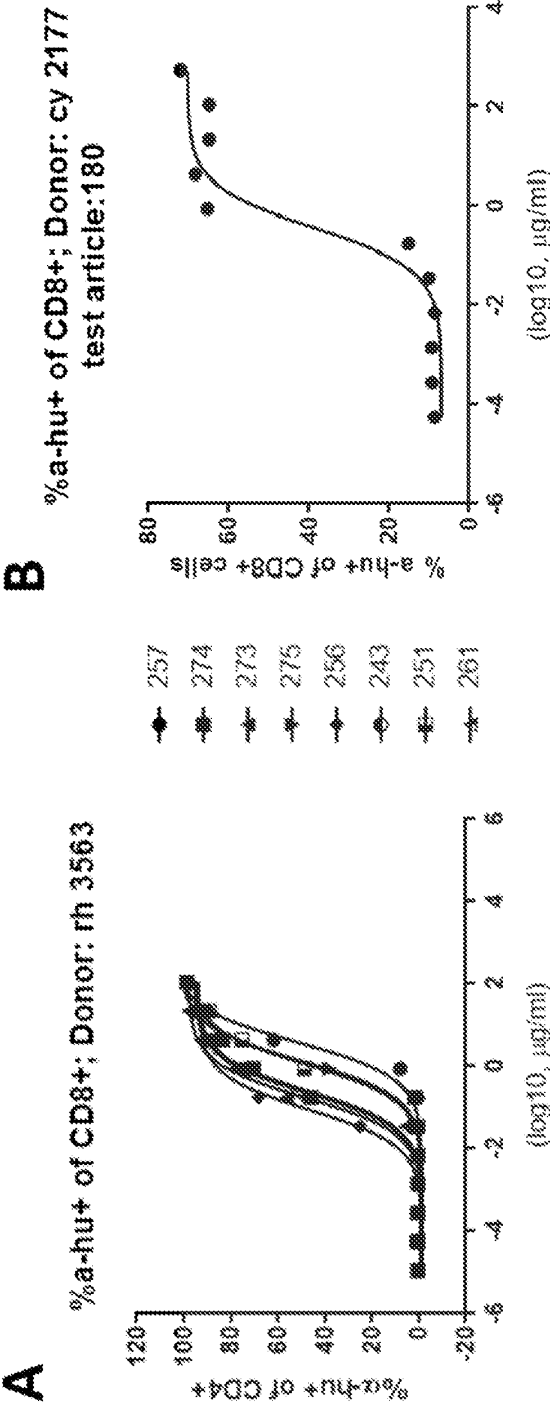


Figs. 14A-14B

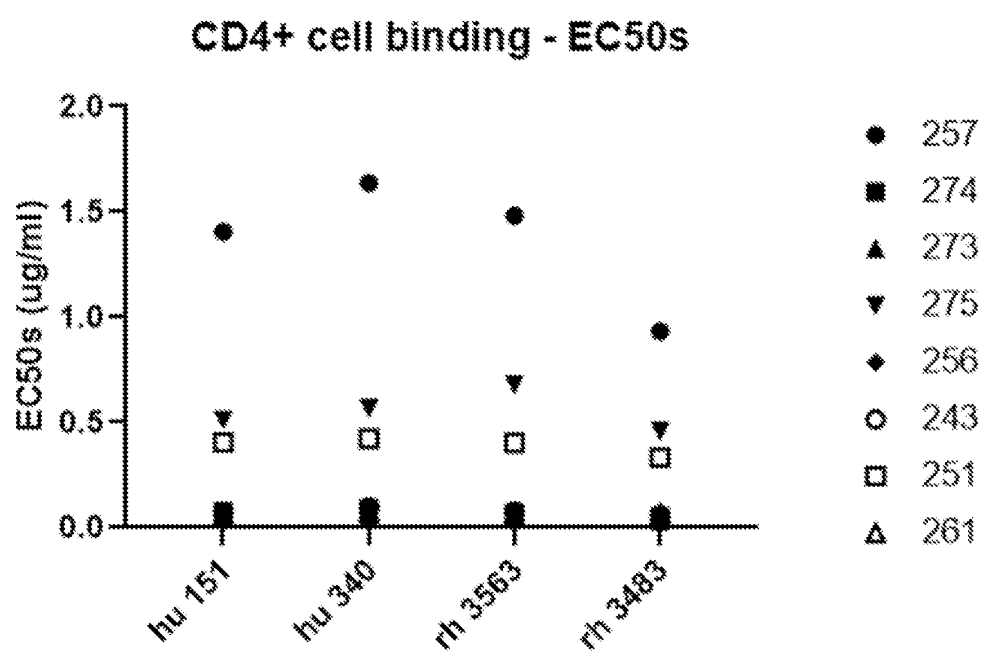
Attorney Docket No. 1337-WO-PCT

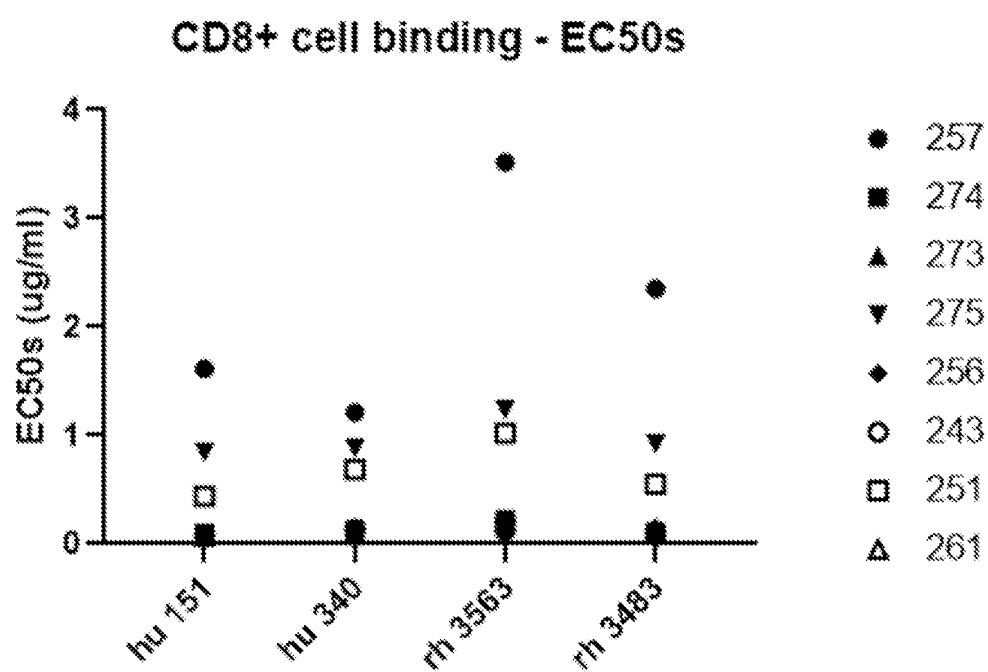


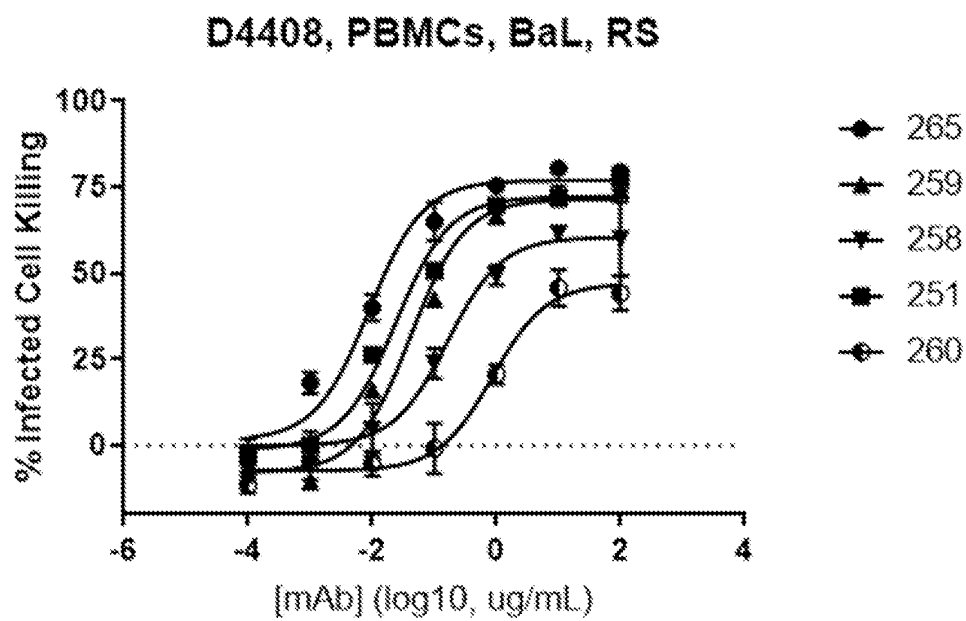
Figs. 15A-15B

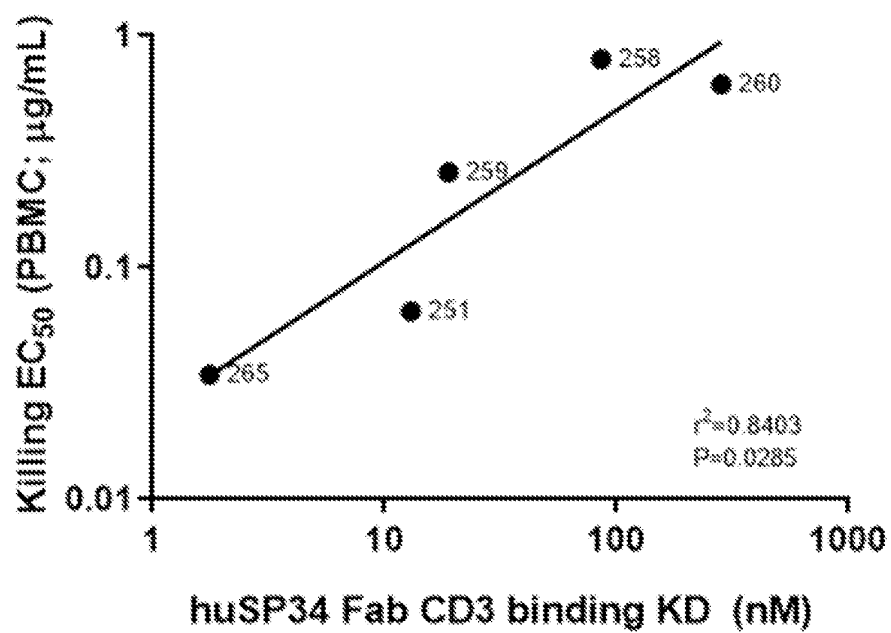


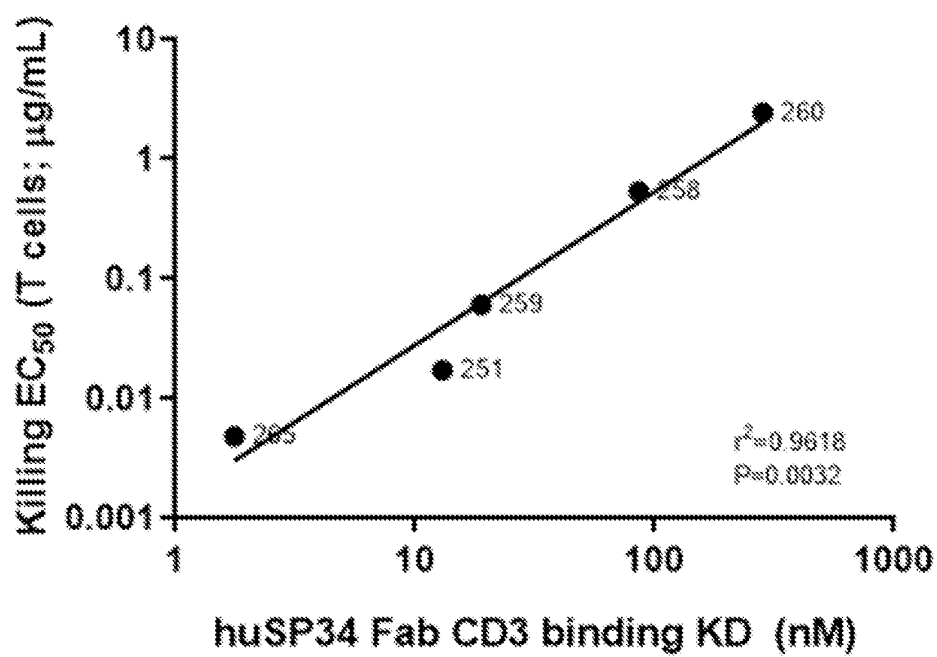
Figs. 16A-16B

24/47**Fig. 17**

25/47**Fig. 18**

26/47**Fig. 19**

27/47**Fig. 20**

28/47**Fig. 21**

29/47

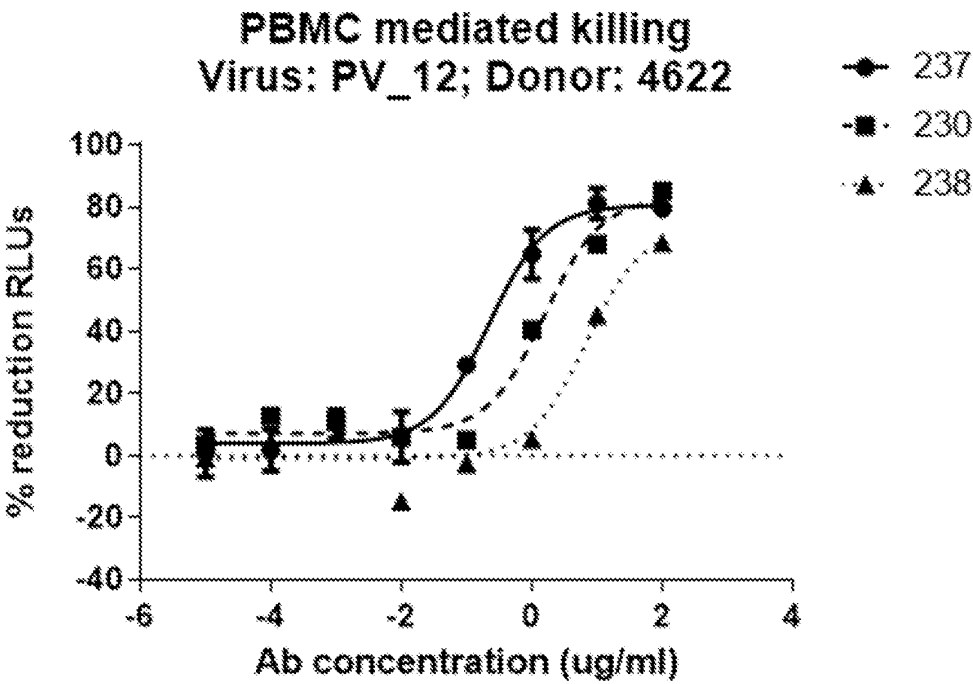
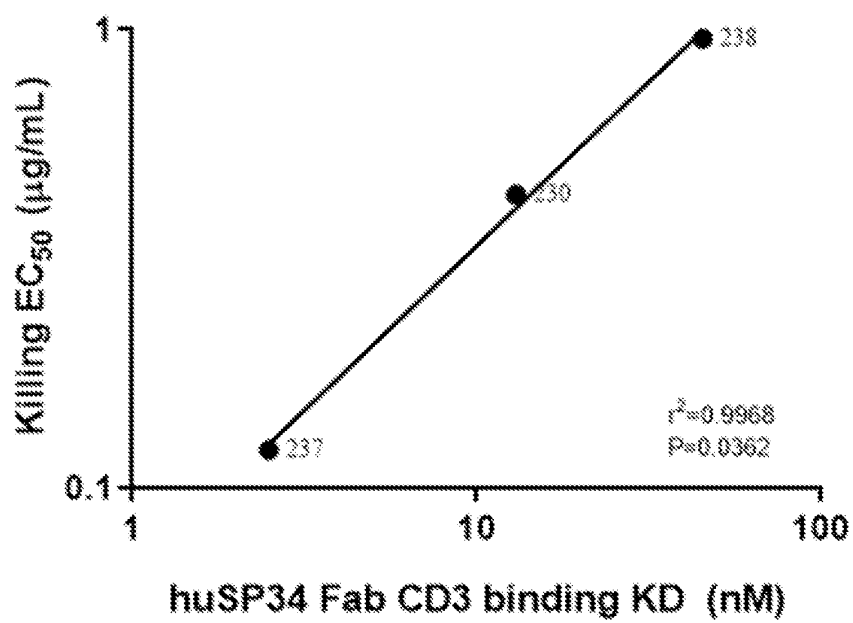


Fig. 22

30/47**Fig. 23**

31/47

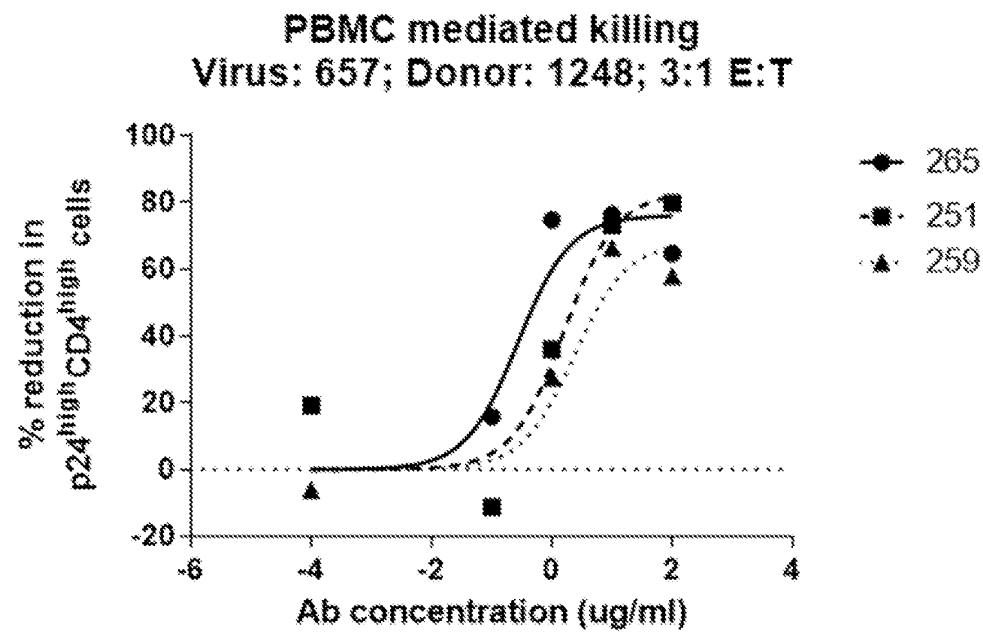


Fig. 24

32/47

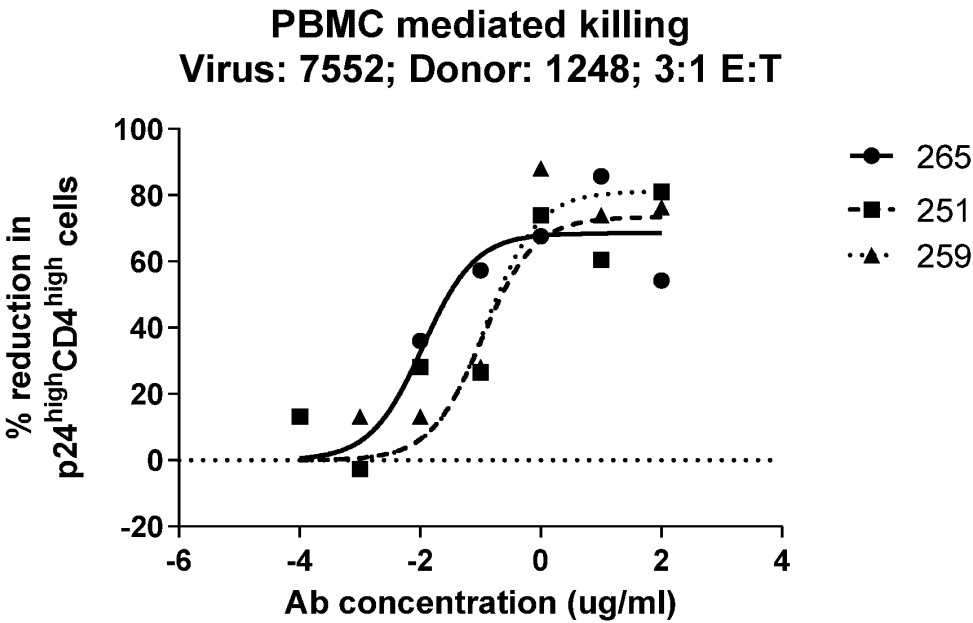


Fig. 25

Attorney Docket No. 1337-WO-PCT

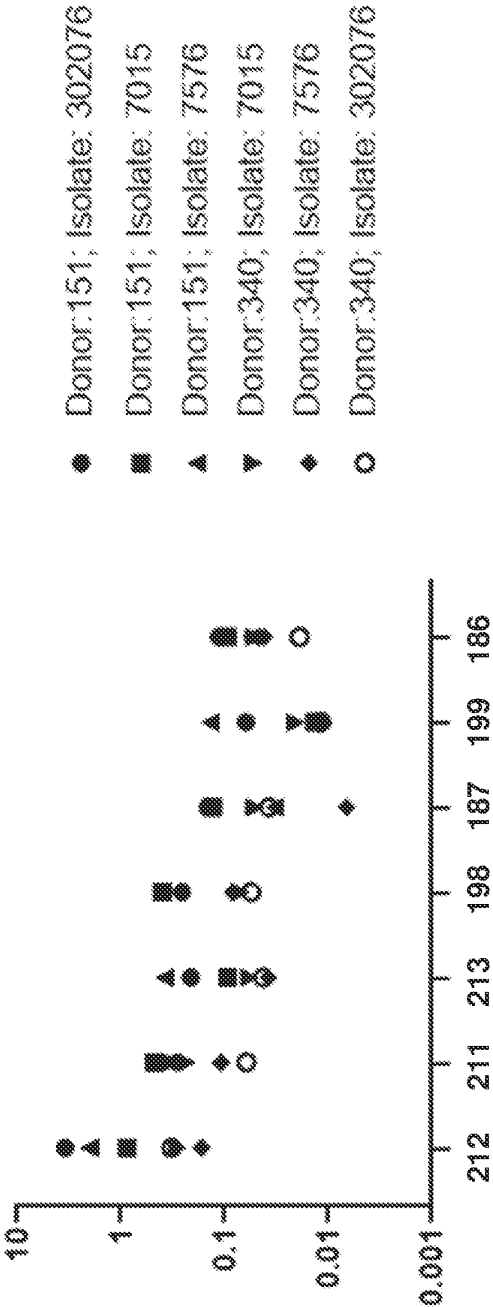
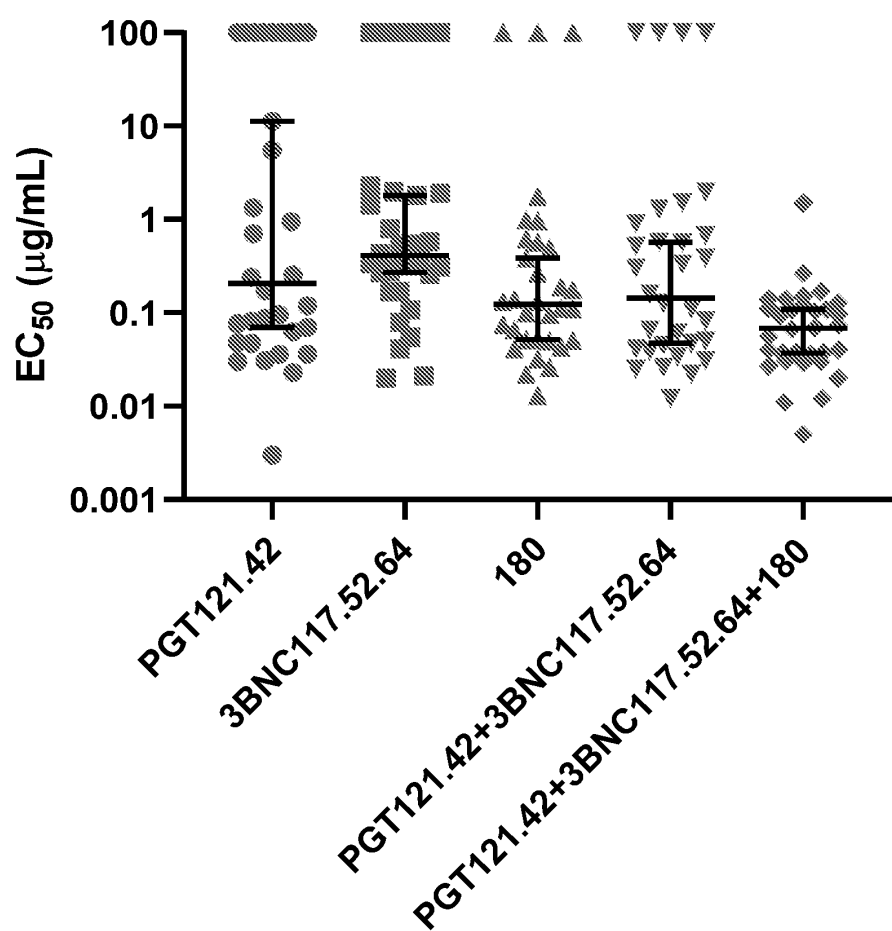
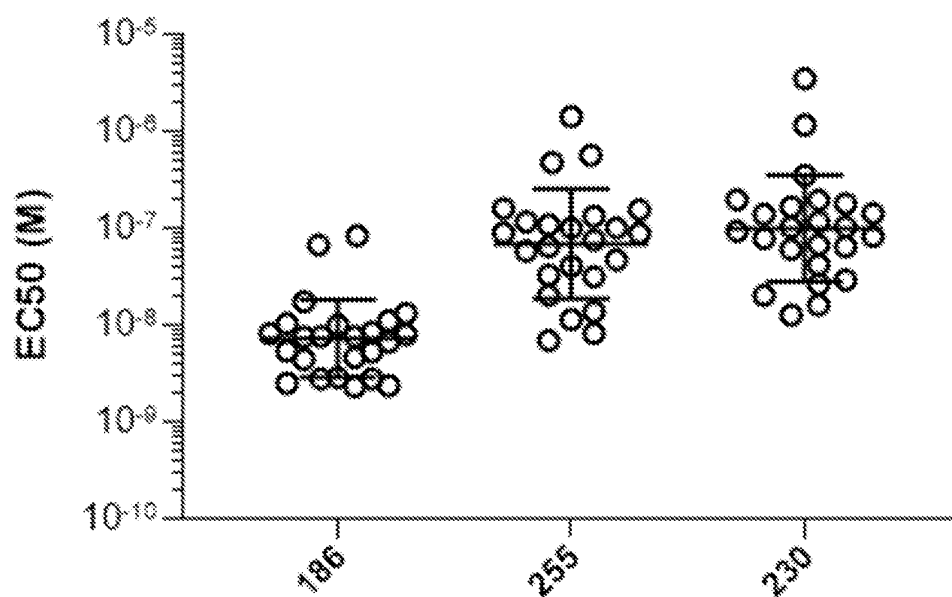
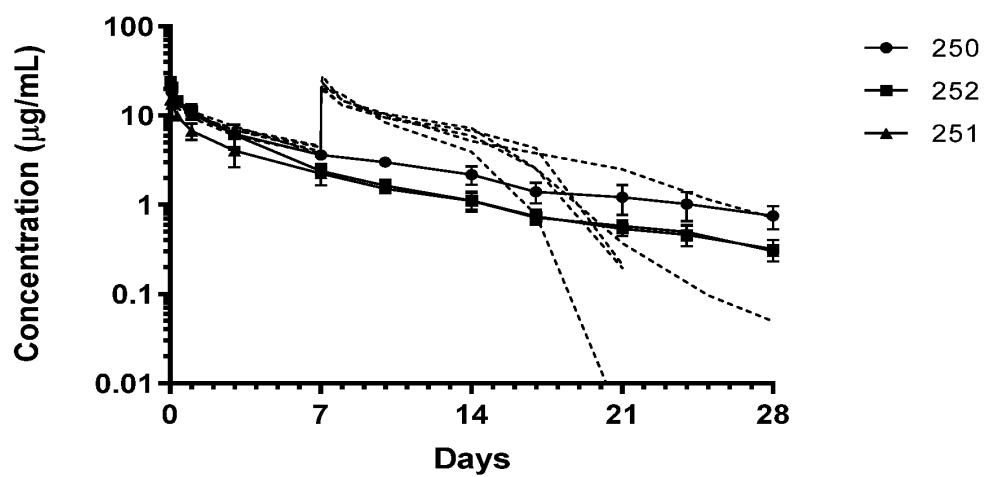
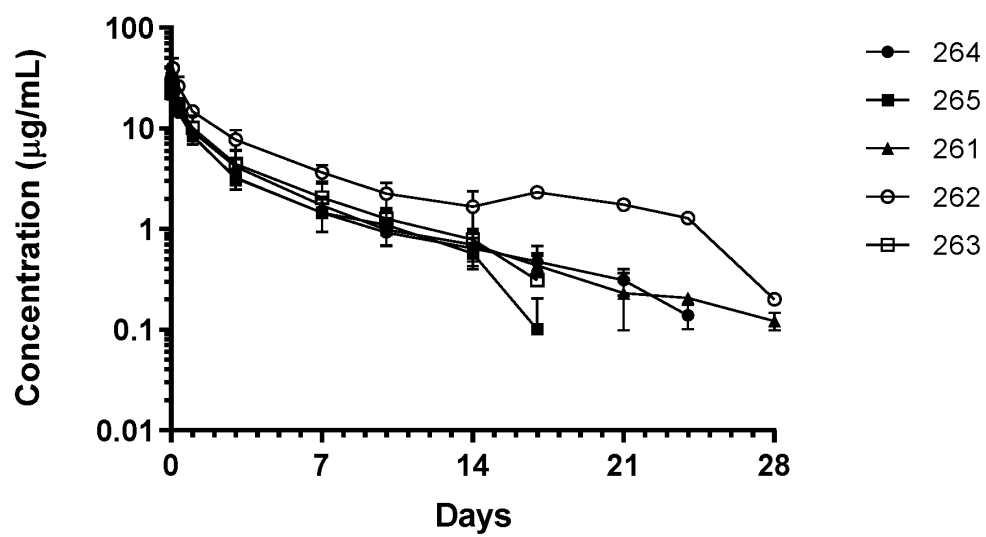


Fig. 26

34/47**Fig. 27**

35/47**Fig. 28**

36/47**Fig. 29**

37/47**Fig. 30**

38/47

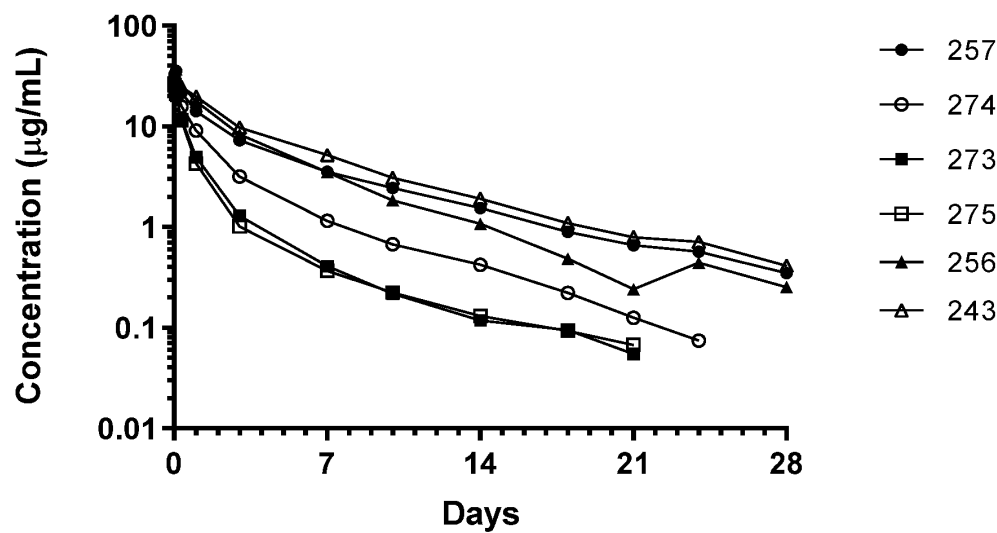
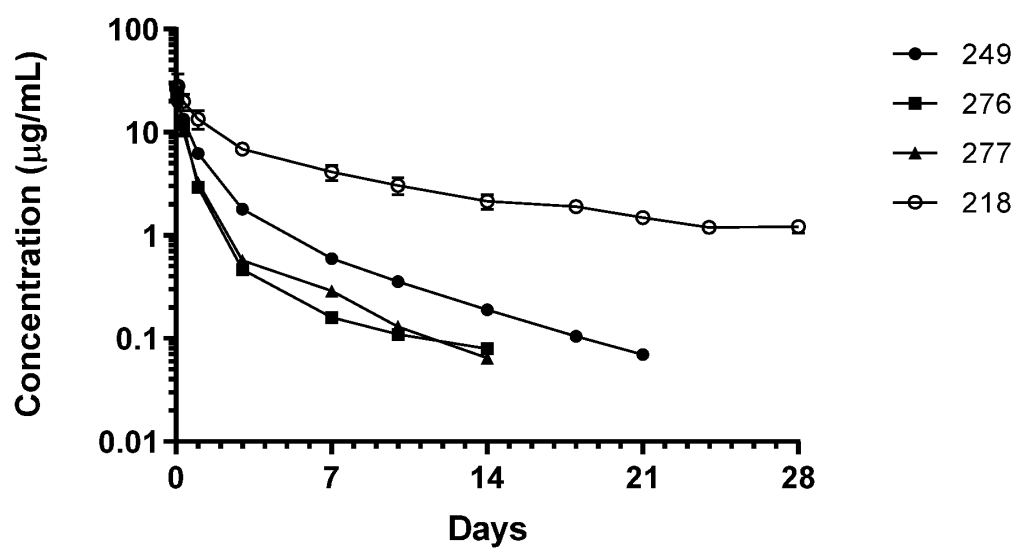


Fig. 31

39/47**Fig. 32**

40/47

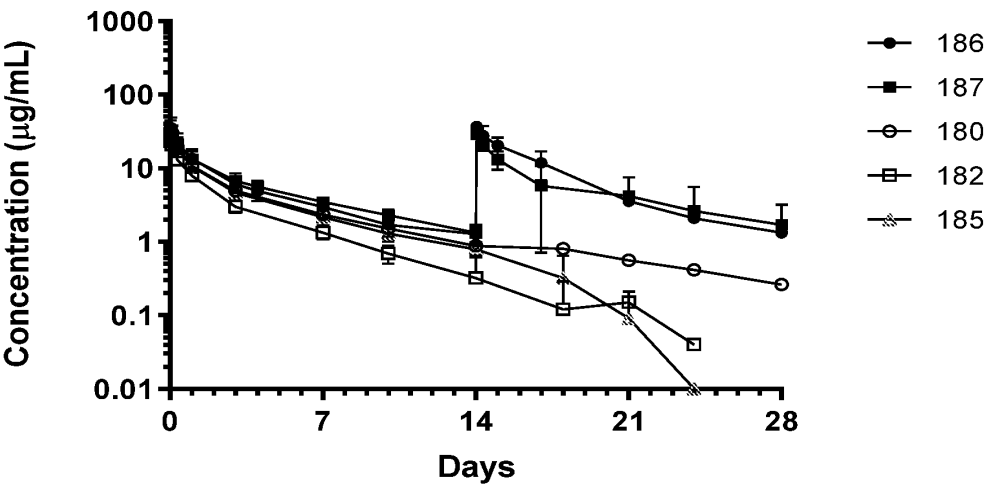


Fig. 33

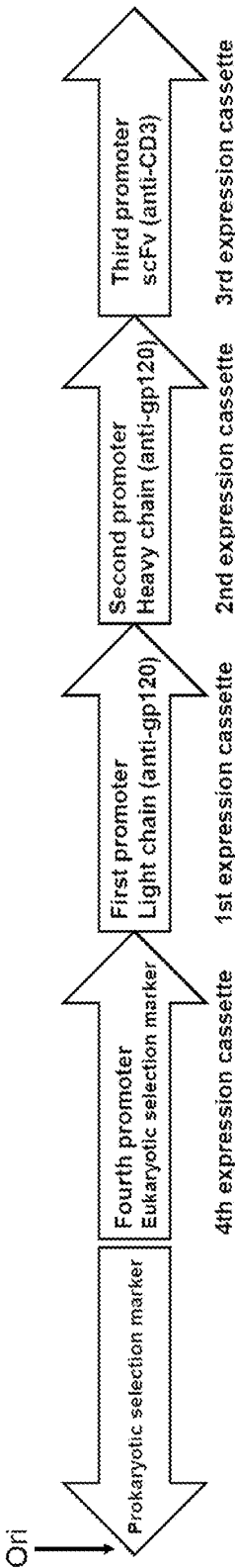


Fig. 34

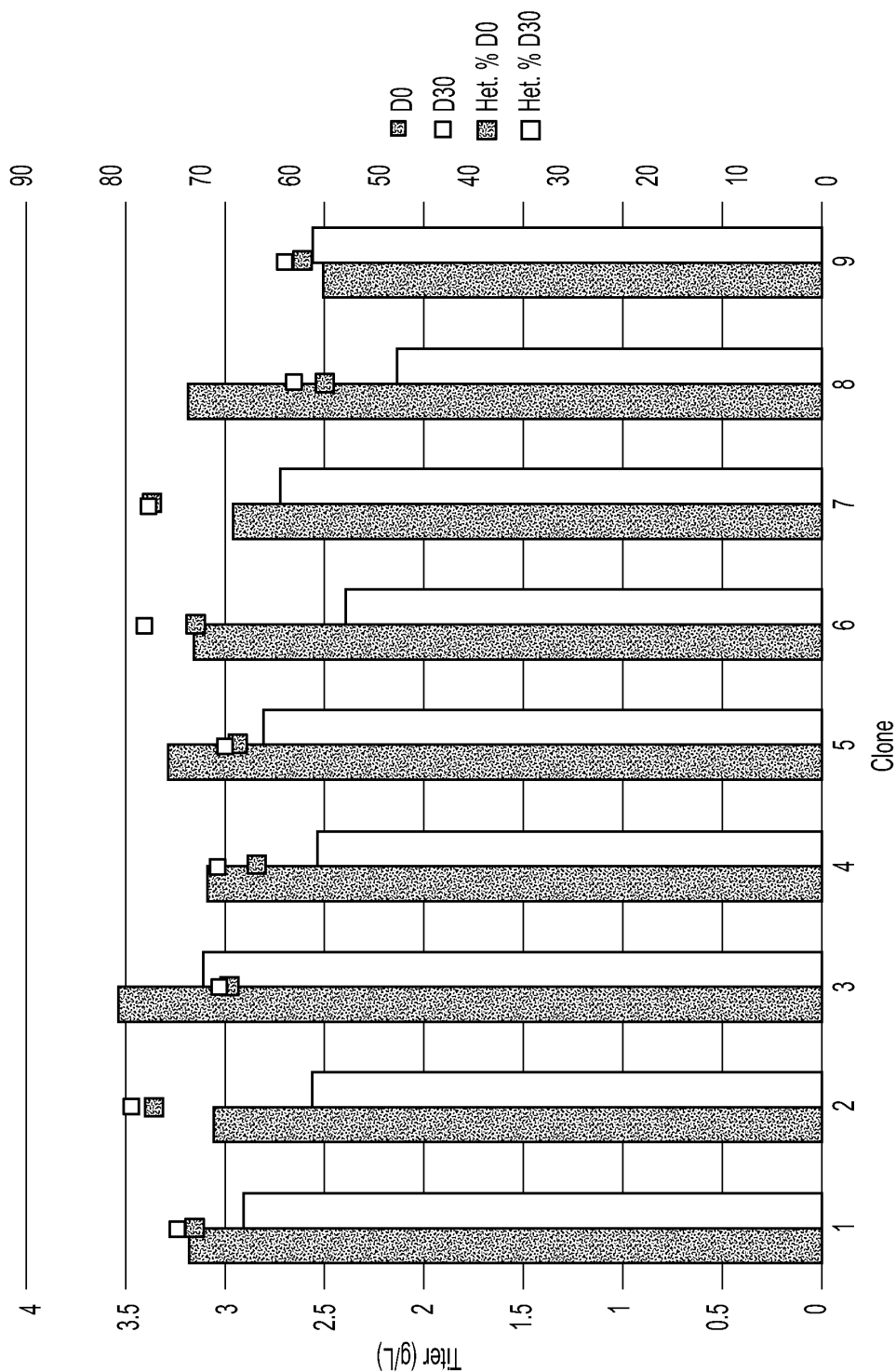


Fig. 35

43/47

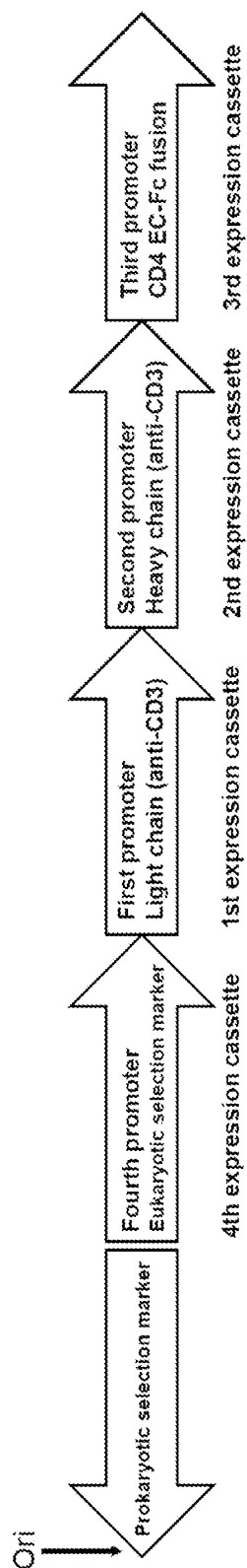


Fig. 36

Attorney Docket No. 1337-WO-PCT

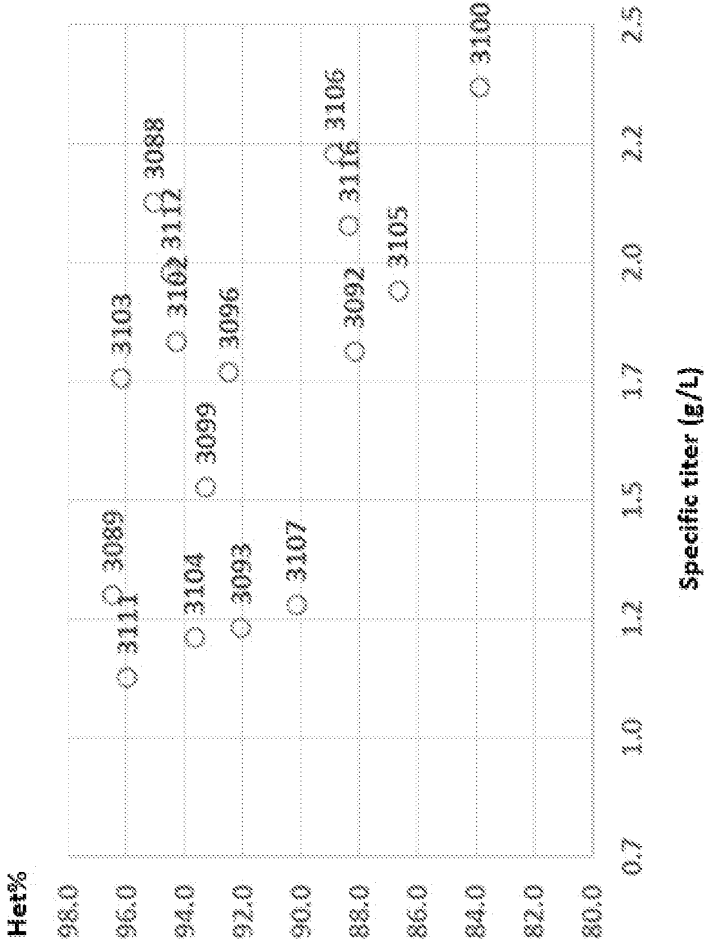


Fig. 37

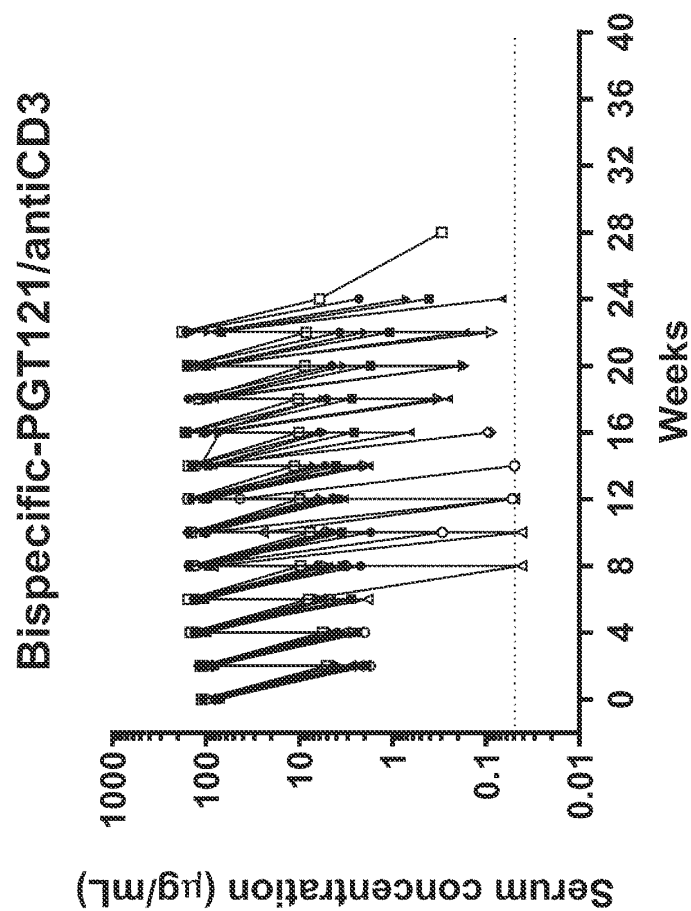
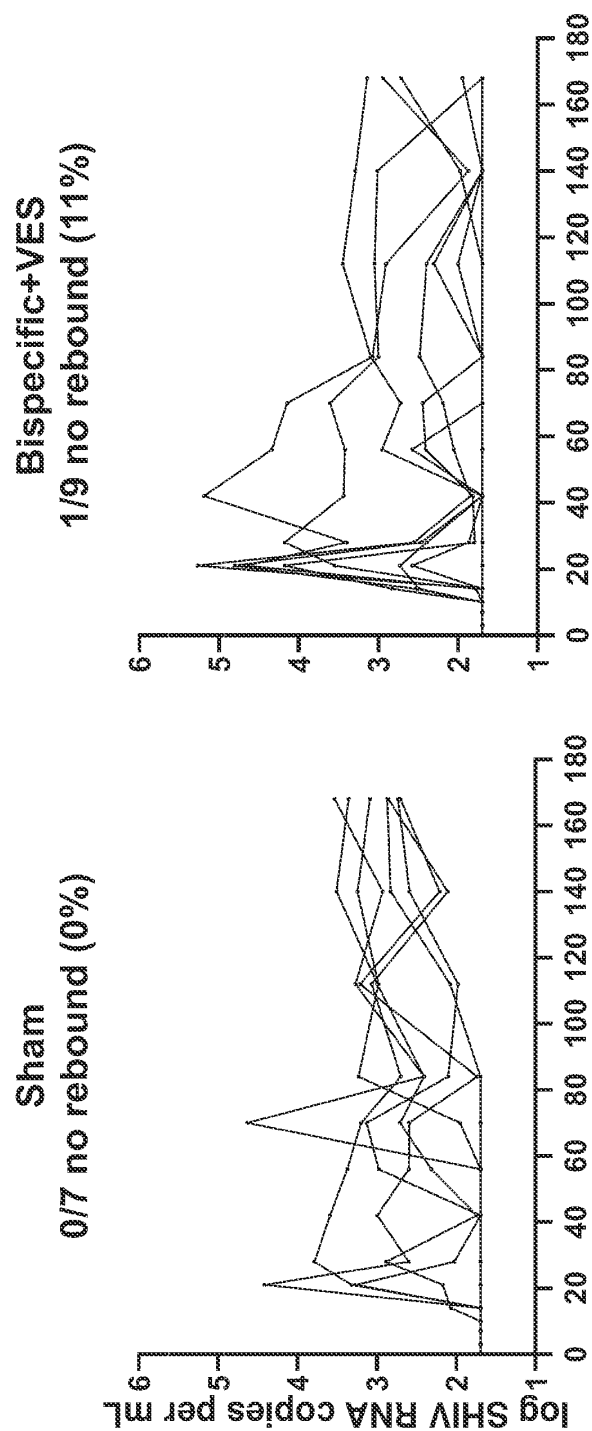


Fig. 38



Days following ART discontinuation

Fig. 39

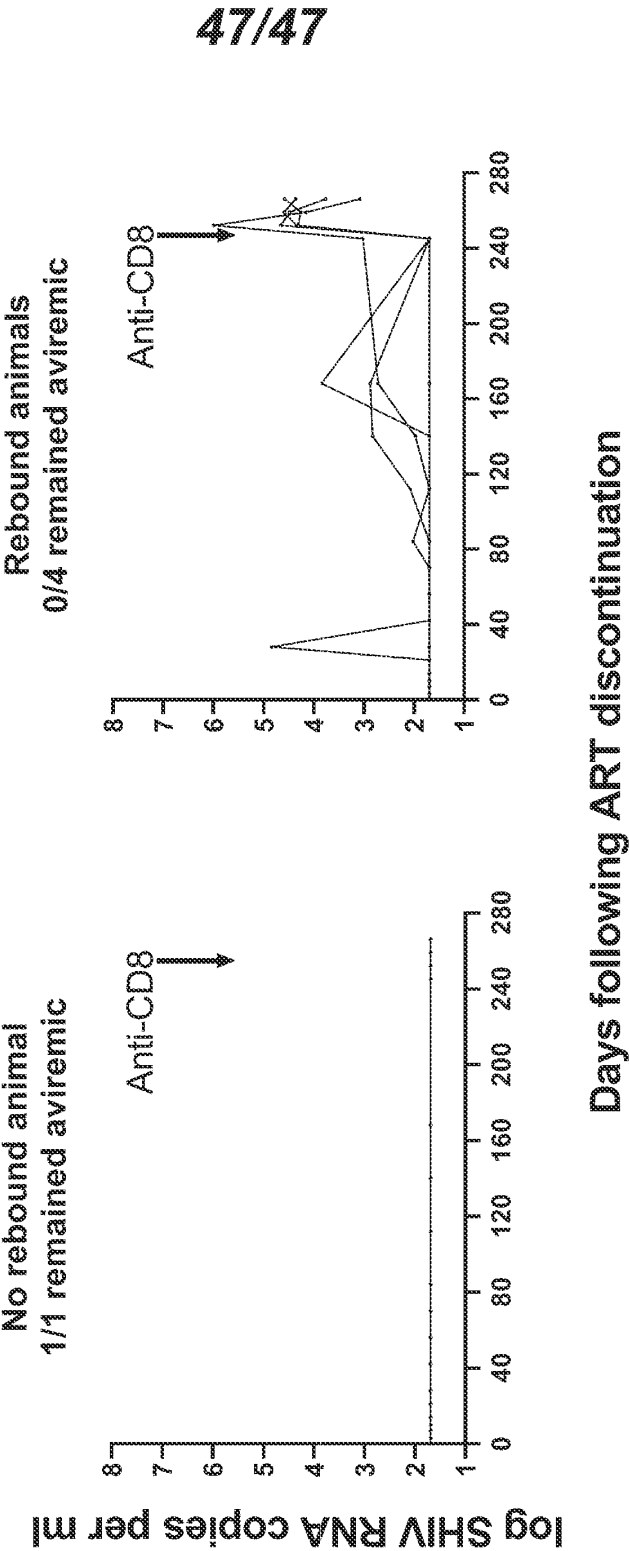


Fig. 40