

Figure 1A

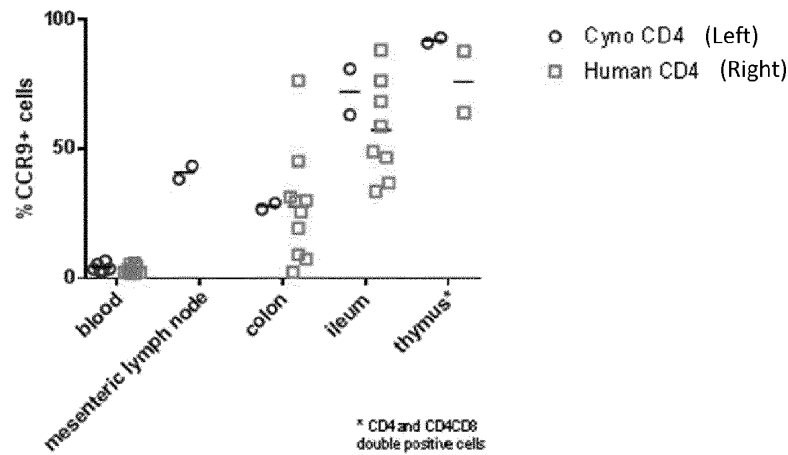


Figure 1B

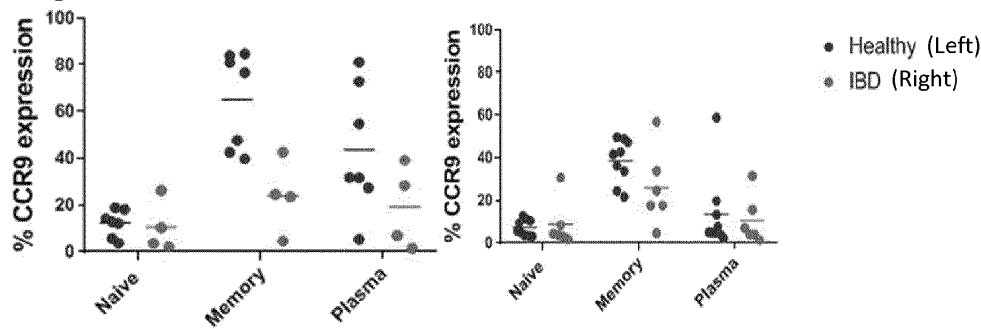
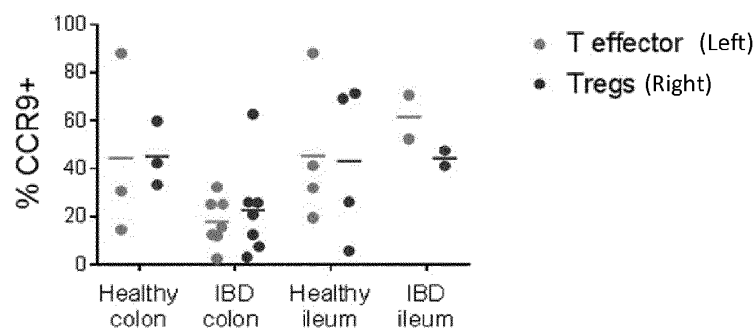


Figure 1C



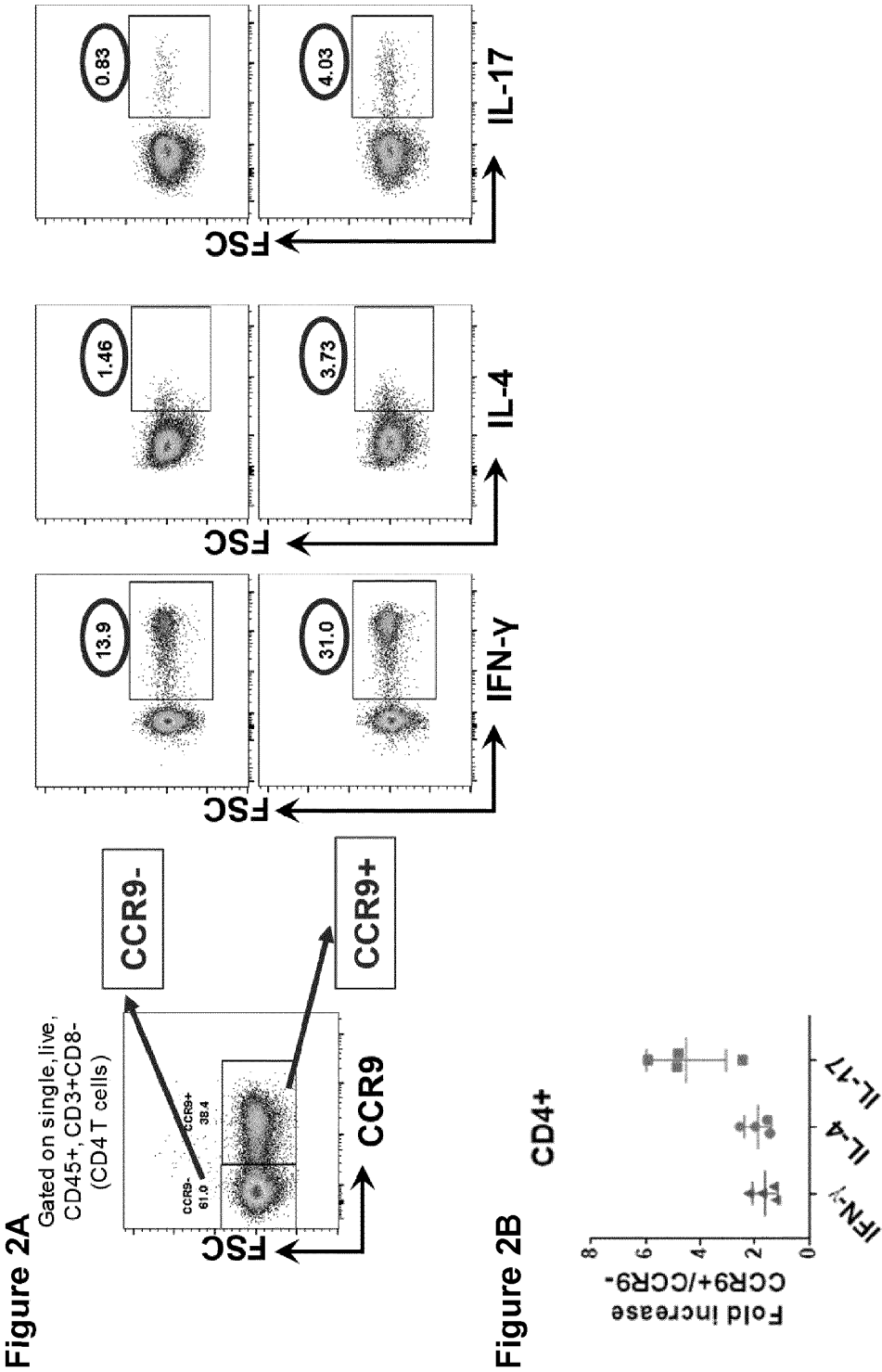


Figure 3A

			FW1	HCDR1	FW2	HCDR2
AB1020011	(SEQ ID NO: 58)		EVQLVESGGGLVQPGGSRKLS	CAASGFTFRDYG	MH-----WVRQAPERGLEWVAYINS-----GSSAIYYADTVKG	
AB1020227	(SEQ ID NO: 62)		EVQLVESGGRLVQPKGSLKLS	CAASGFTNTYAM	Y-----WIRQAPGKGLEWVARIRSKS-----NNIATYYADSVKD	
AB1020229	(SEQ ID NO: 60)		EVQLVESGGGLVQPKGSLKLS	CAASGFTNTYAM	Y-----WVRQAPGKGLEWVARIRSKS-----SNFATYYADSVKD	
AB1020234	(SEQ ID NO: 64)		EVQLVESGGGLVQPGGSKLS	CAASGFTFSSYAM	S-----WVRQTPKRLRWATISD-----GGSYTYYPDNVKG	
AB1020243	(SEQ ID NO: 56)		EVQLQQSGTVLARPGASVKMS	CKASGYFTSYWMH	-----WVKQRPQGGLWIGVIYP-----GNSDTRYNQKFKG	
AB1020264	(SEQ ID NO: 66)		QVQLQQPGAEIVKPGASVKLS	CKASGYFTSYWMH	-----WVKQRPGRGLEWIGRIDP-----NSGGTKYNEKFKS	
AB1020283	(SEQ ID NO: 68)		EVKLEESGGGLVQPGGSMKLS	CVASGFSFSNYWMN	-----WVRQSPKGLEWVAQIRLKS-----DNYATHYAESVKG	
AB1020310	(SEQ ID NO: 70)		EVQLQQSGPELVKPGASVKMS	CKASGYFTSYVMH	-----WVKQRPQGGLWIGIINP-----YNDGTYNEKFKG	
AB1020105	(SEQ ID NO: 72)		EVKLEESGGGLVQPGGSMKLS	CVASGFTFNKYWMN	-----WVRQSPKGLEWVVQIKLKS-----DNYATHYAESVKG	
AB1020069	(SEQ ID NO: 74)		EVKLEESGGGLVQPGGSMKLS	CVASGFTFSNYWMN	-----WVRQSPKGLEWVAQIRLKS-----DNYATHYAESVKG	
			FW3	HCDR3	FW4	
AB1020011	(SEQ ID NO: 58)		RFTISRDNKNTLFLQMTSL	--RSEDTAMYYCARAGT-----AYWGQGTTLTVSA		
AB1020227	(SEQ ID NO: 62)		RFTISRDDSQSMLYLQMNLL	--KTEDTAMYYCVRGGF-----DYWGQGTTLTVSS		
AB1020229	(SEQ ID NO: 60)		RFTISRDDSQSMLYLQMNLL	--KTEDTAMYYCVRGGS-----DYWGQGTTLTVSS		
AB1020234	(SEQ ID NO: 64)		RFTISRDNKNNLYLQMSHL	--KSEDTAMYYCARDPRYF-----DYWGQGTTLTVSS		
AB1020243	(SEQ ID NO: 56)		KAKLTAVTSATTAYMELSSL	--TNEDSAVYYCTRDYISNYVYYAM-----DYWGQGTSLTVSS		
AB1020264	(SEQ ID NO: 66)		KAKLTVDKPSATYAMLSSL	--TSEDSAVYYCARGGLVYF-----DYWGQGTTLTVSS		
AB1020283	(SEQ ID NO: 68)		RFTISRDDSKSSVYLQMNLL	--RAEDTGIIYCTERPF-----SYWGQGTTLTVSA		
AB1020310	(SEQ ID NO: 70)		KAKLTSDKSSATYAMELSSL	--TSEDSAVYYCARGNGRGYAM-----DYWGQGTSLTVSS		
AB1020105	(SEQ ID NO: 72)		RFAISRDDSKSSVYLQMNLL	--RAEDTGIIYCTLRPF-----TYWGQGTTLTVSA		
AB1020069	(SEQ ID NO: 74)		RFTISKDDSKSSVYLQMNLL	--RAEDTGIIYCTERPF-----AYWGQGTTLTVSS		

Figure 3B

		FW1	LCDR1	FW2	LCDR2
AB1020011	(SEQ ID NO: 59)	DVVMQTPTLSLVTFGQPASISCKSSQSLDS---	DGKTYLNWLLQRPQSPKRLIYQV-----	SKRLDS	
AB1020227	(SEQ ID NO: 63)	DVVMQTPTLSLVTIGQPASISCKSSQSLYS---	DGKTYLNWLQRPQSPKRLMYQV-----	SKLDE	
AB1020229	(SEQ ID NO: 61)	DVVMQTPTLSLVTIGQPASISCKSCQCLLYS---	DGKTYLNWLQRPQSPKRLMYQV-----	SKLDE	
AB1020234	(SEQ ID NO: 65)	DVVMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLHWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020243	(SEQ ID NO: 57)	DVVMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLHWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020264	(SEQ ID NO: 67)	DVVMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLHWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020283	(SEQ ID NO: 69)	DVLMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLEWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020310	(SEQ ID NO: 71)	DVLMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLEWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020105	(SEQ ID NO: 73)	DVLMQTPTLSLPSVLGDQASISCRSSQSLIHS---	NGNTYLEWYLQKPGQSPKLLIYKV-----	SNRFS	
AB1020069	(SEQ ID NO: 75)	DVLMQTPTLSLPSVLGDQASISCRSSQSLVHS---	NGNTYLEWYLQKPGQSPKLLIYKV-----	SKRLS	
		FW3	LCDR3	FW4	
AB1020011	(SEQ ID NO: 59)	GVPDRFTGSGSG--TDFTLKISRVEAEDLGVYCWQGSHP-----	RTFGGGTKLEI---K		
AB1020227	(SEQ ID NO: 63)	GIPDRFSGSGSE--TDFTLKISRVEAEDLGVYCLQGTYP-----	FTFGTGTKLEI---K		
AB1020229	(SEQ ID NO: 61)	GIPDRFSGSGSE--TDFTLKISRVEAEDLGVYCLQGTYP-----	YTFGSGTKLEI---K		
AB1020234	(SEQ ID NO: 65)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQSSTHVP-----	WTFGGGTKLEI---K		
AB1020243	(SEQ ID NO: 57)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQSSTHVP-----	WTFGGGTKLEI---K		
AB1020264	(SEQ ID NO: 67)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQGTTHVP-----	HTFGSGTKLEI---K		
AB1020283	(SEQ ID NO: 69)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQGSHP-----	LTFGAGTKLEL---K		
AB1020310	(SEQ ID NO: 71)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQGSHP-----	PTFGGGTKLEI---K		
AB1020105	(SEQ ID NO: 73)	GVPDRFSGSGSG--TDFTLKISRVEAEDLGVYFCQGSHP-----	WTFGGGTKLEI---K		
AB1020069	(SEQ ID NO: 75)	GVPDRFSGSGSG--TEFTLKISRVEAEDLGVYFCQGSHP-----	LTFGAGTKLEL---K		

Figure 4

VH		FW1	HCDR1	FW2	HCDR2
AB1020243 (SEQ ID NO: 56)		EVQLQQSGTGLARP	ASVKMSCKASGYTFTSYWMH	WVKQRPQGQLEWIGVIYP	GNSDTRYNQKFKG
AB1020243--fg1 (SEQ ID NO: 51)		QVQLVQSGAEVKKPGASVK	SKASGYTFTSYWMH	WVRQAPGQGLEWIGVIYP	GNSDTRYNQKFKG
AB243LO0331 (SEQ ID NO: 51)		QVQLVQSGAEVKKPGASVK	SKASGYTFTSYWMH	WVRQAPGQGLEWIGVIYP	GNSDTRYNQKFKG
AB243LO0326 (SEQ ID NO: 51)		QVQLVQSGAEVKKPGASVK	SKASGYTFTSYWMH	WVRQAPGQGLEWIGVIYP	GNSDTRYNQKFKG
VL		FW3	HCDR3	FW4	
AB1020243 (SEQ ID NO: 56)		KAKLTAVTSATTAYMELSSL	--TNE	DSAVYYCTRDYYSNVVYYAM	DYWGQGTSTVTVSS
AB1020243--fg1 (SEQ ID NO: 51)		RVTITRDTASTAYMELSSL	--RSE	DTAVYYCTRDYYSNVVYYAM	DYWGQGTSTVTVSS
AB243LO0331 (SEQ ID NO: 51)		RVTITRDTASTAYMELSSL	--RSE	DTAVYYCTRDYYSNVVYYAM	DYWGQGTSTVTVSS
AB243LO0326 (SEQ ID NO: 51)		RVTITRDTASTAYMELSSL	--RSE	DTAVYYCTRDYYSNVVYYAM	DYWGQGTSTVTVSS
VL		FW1	LCDR1	FW2	LCDR2
AB1020243 (SEQ ID NO: 57)		DVVMQTPLSLPLFVSLG	PDQASISCRSSQSLVHS	NGNTYLHWYLQKPGQSPKLLIYKV	SNRFS
AB1020243--fg1 (SEQ ID NO: 54)		DIVMTQTPLSLPLFVTPG	EPASISCRSSQSLVHS	NGNTYLHWYLQKPGQSPKLLIYKV	SNRFS
AB243LO0331 (SEQ ID NO: 53)		DIVMTQTPLSLPLFVTPG	EPASISCRSSQSLVHS	NTNTYLHWYLQKPGQSPKLLIYKV	SNRFS
AB243LO0326 (SEQ ID NO: 52)		DIVMTQTPLSLPLFVTPG	EPASISCRSSQSLVHS	NRNTYLHWYLQKPGQSPKLLIYKV	SNRFS
		FW3	LCDR3	FW4	
AB1020243 (SEQ ID NO: 57)		GVPDRFSGSGSG	--TDF	LKISRVEAEDLGVFC	QSTHVPWTFGGGTKLEI--K
AB1020243--fg1 (SEQ ID NO: 54)		GVPDRFSGSGSG	--TDF	LKISRVEAEDGVVYC	QSTHVPWTFGGGTKLEI--K
AB243LO0331 (SEQ ID NO: 53)		GVPDRFSGSGSG	--TDF	LKISRVEAEDGVVYC	QSTHVPWTFGGGTKLEI--K
AB243LO0326 (SEQ ID NO: 52)		GVPDRFSGSGSG	--TDF	LKISRVEAEDGVVYC	QSTHVPWTFGGGTKLEI--K

Figure 5A

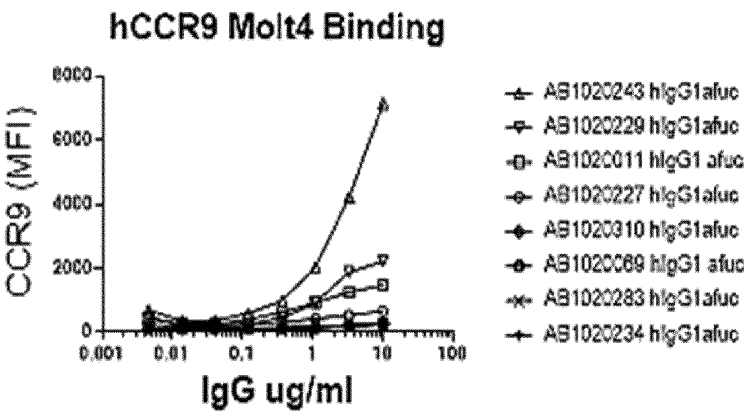


Figure 5B

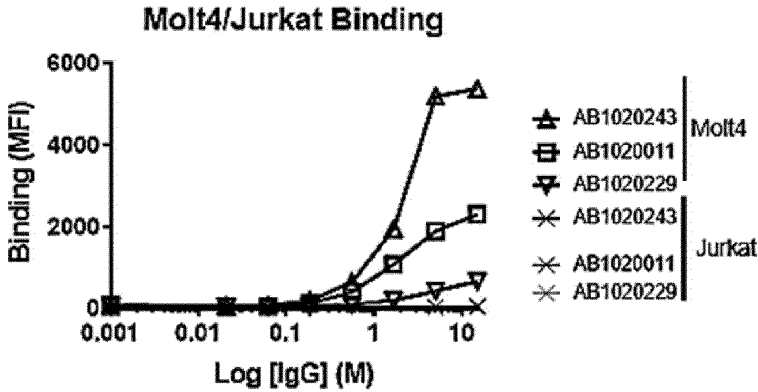


Figure 6

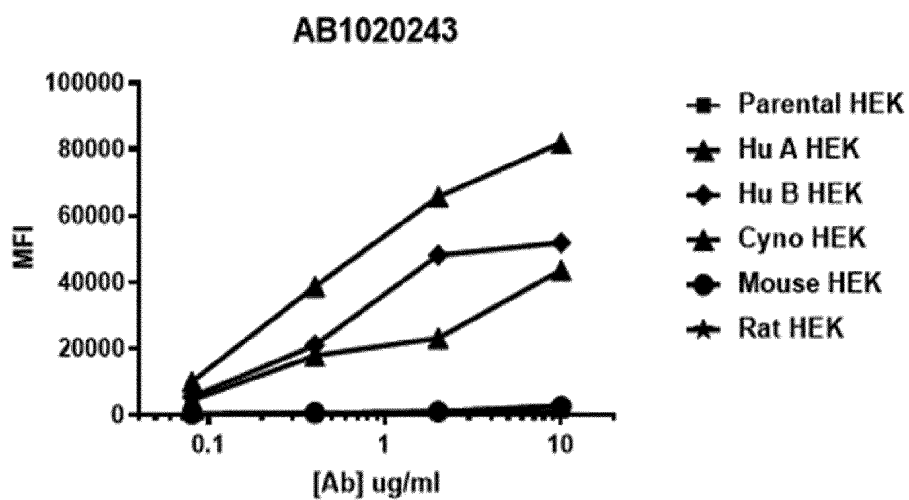


Figure 7

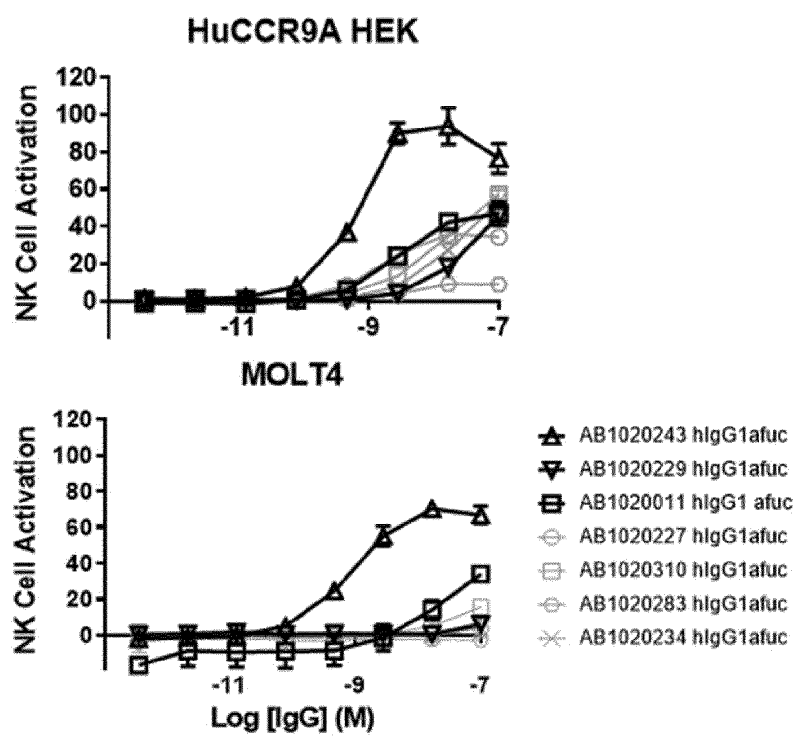


Figure 8

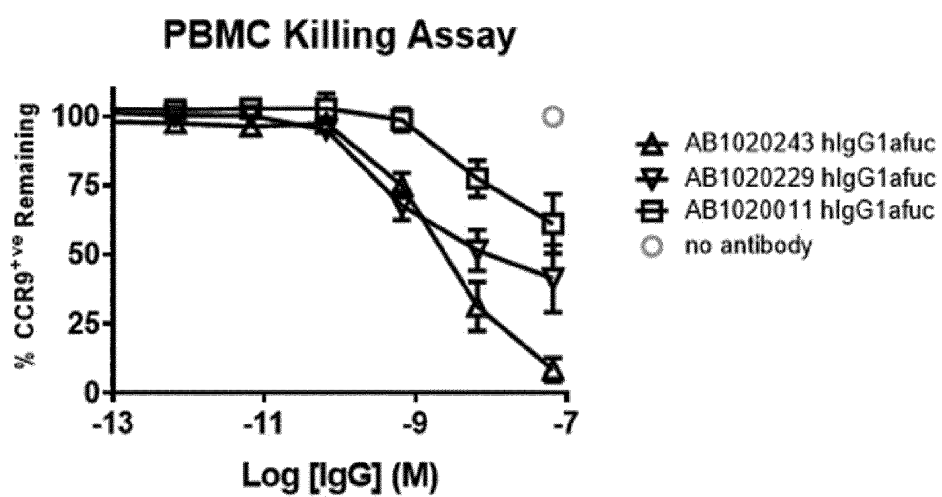


Figure 9A

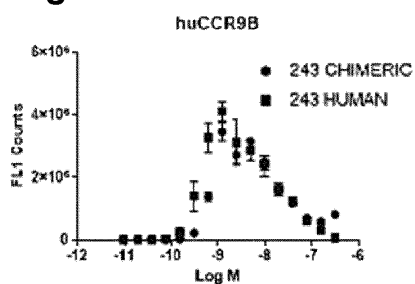


Figure 9B

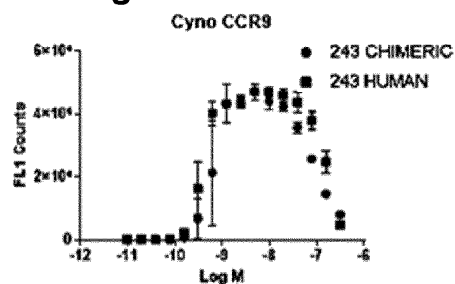


Figure 9C

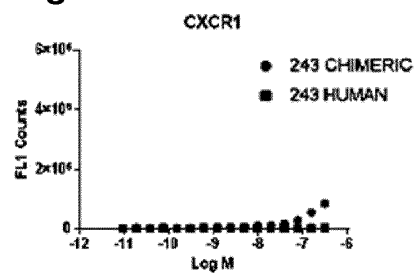


Figure 9D

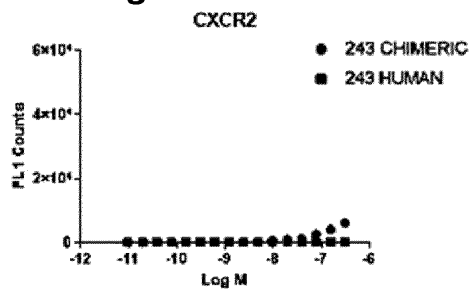


Figure 9E

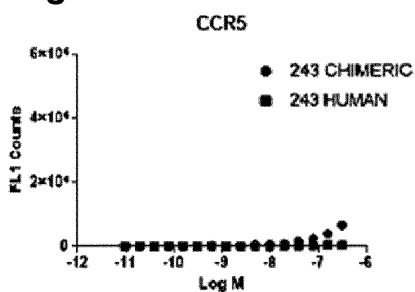


Figure 9F

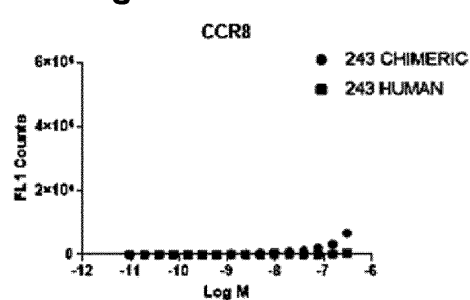


Figure 9G

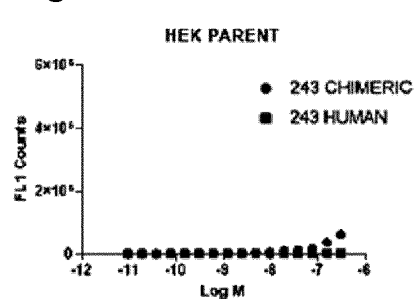


Figure 10A

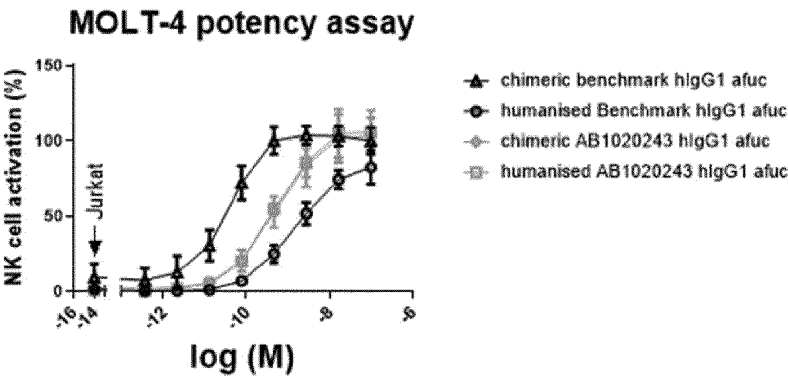


Figure 10B

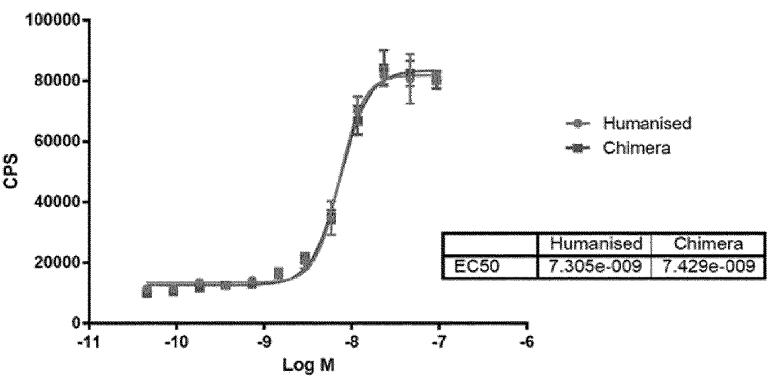


Figure 11

CCL25 competition with anti-CCR9 antibodies

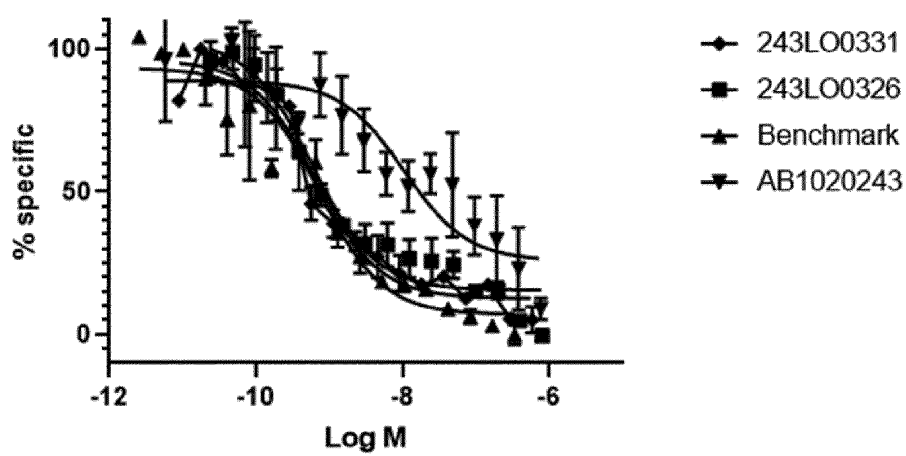


Figure 12A

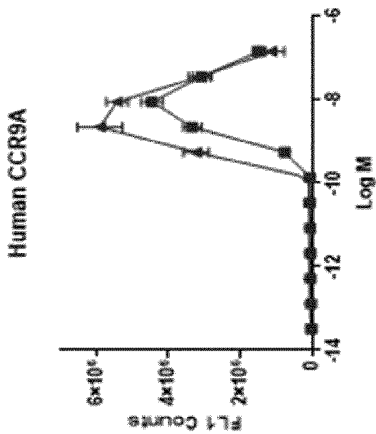


Figure 12B

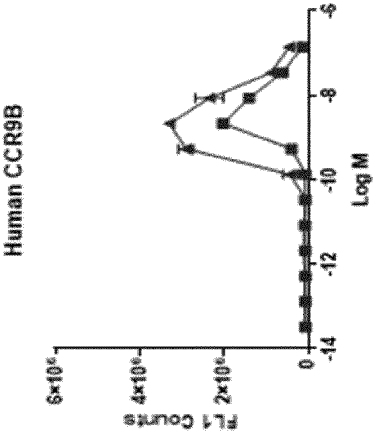


Figure 12C

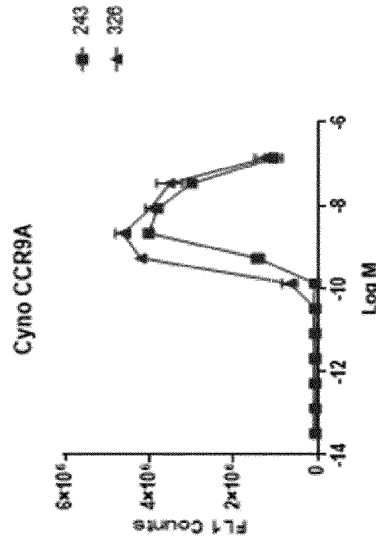


Figure 12D

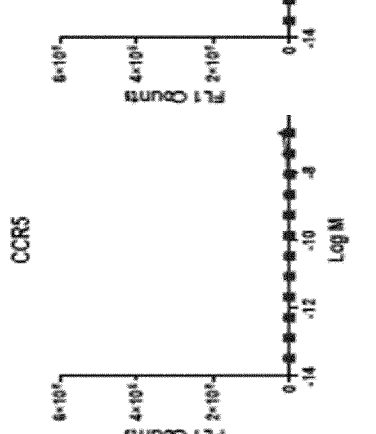


Figure 12E

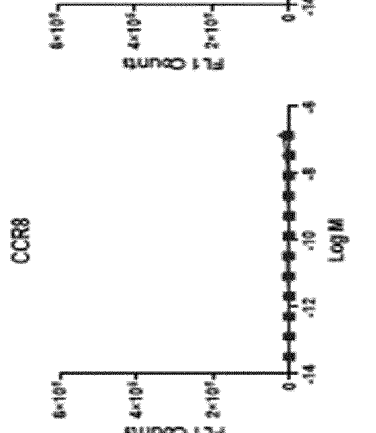


Figure 12F

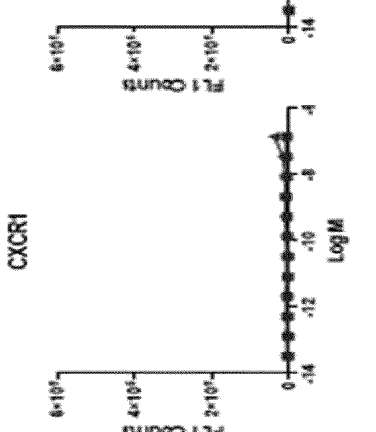


Figure 12G

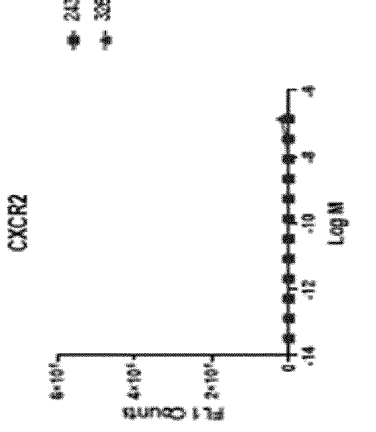


Figure 13A

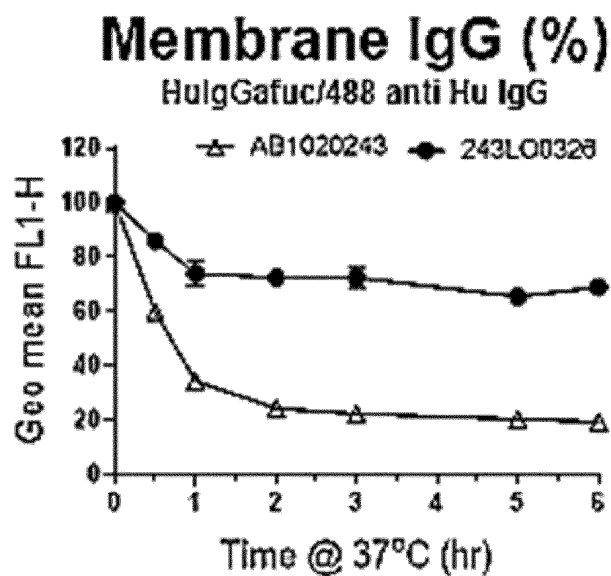


Figure 13B

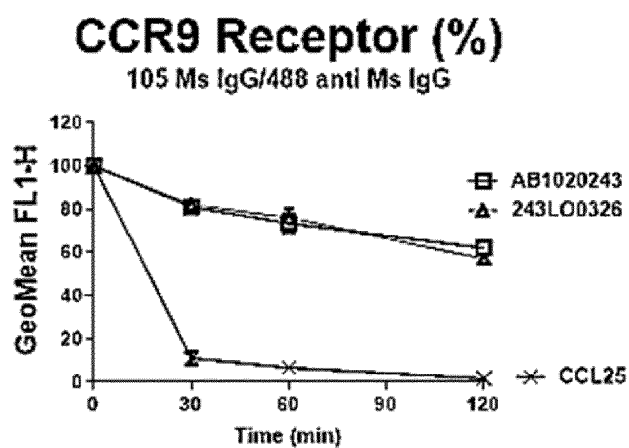


Figure 14A

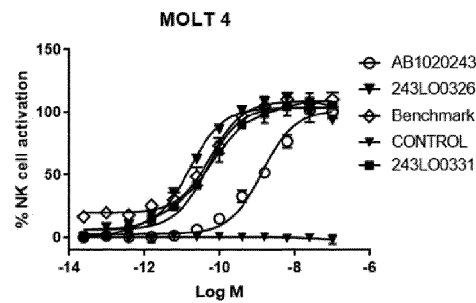


Figure 14B

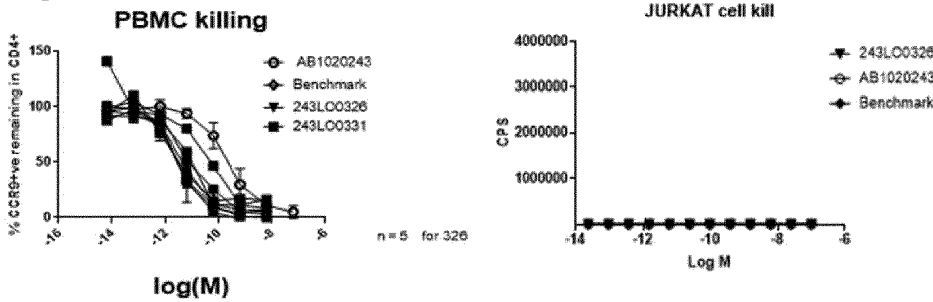


Figure 14C

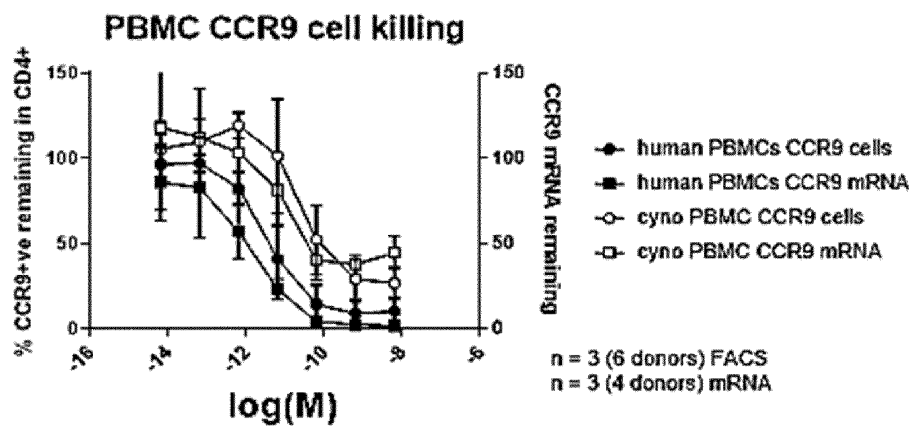


Figure 15A

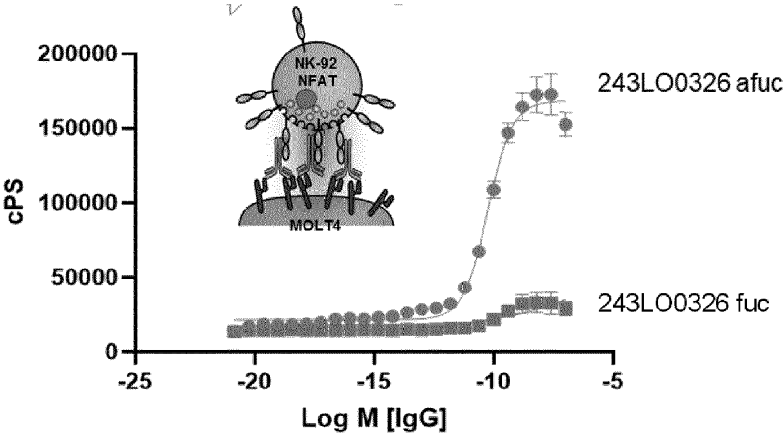


Figure 15B

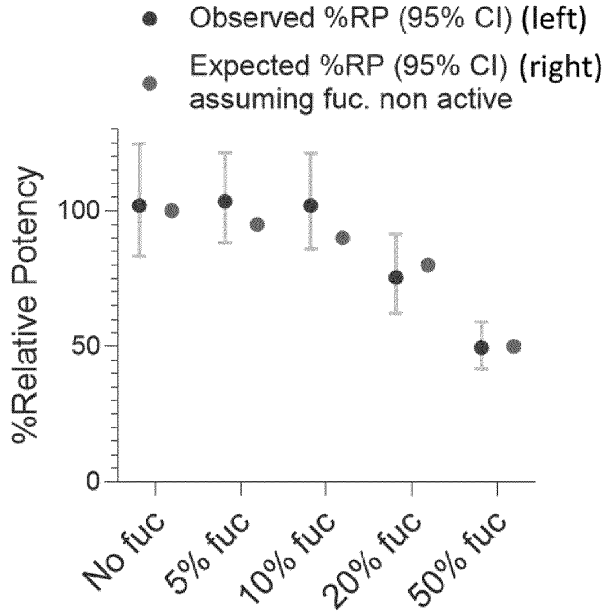


Figure 16A

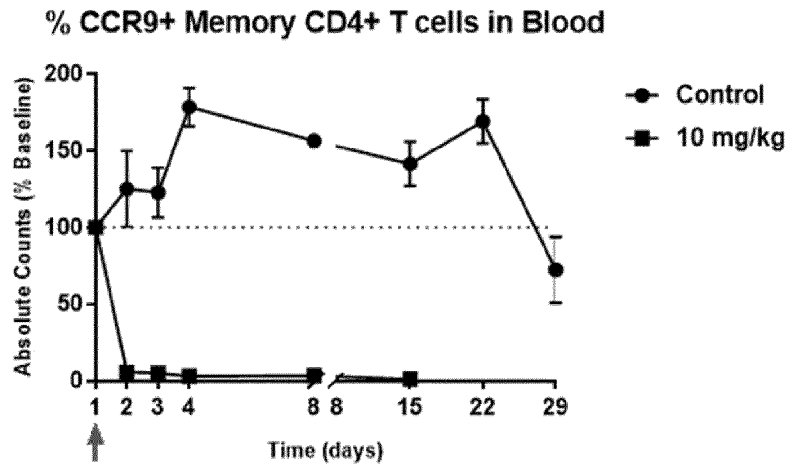


Figure 16B

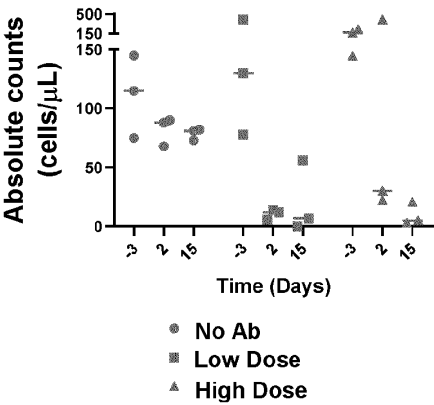


Figure 16C

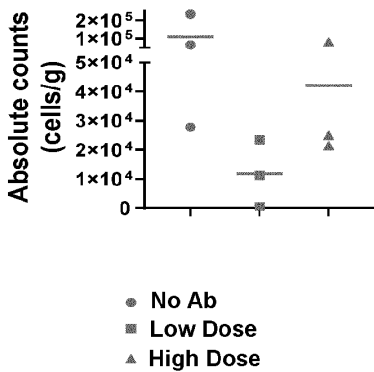


Figure 16D

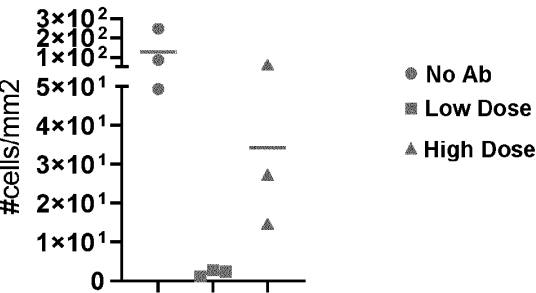


Figure 17

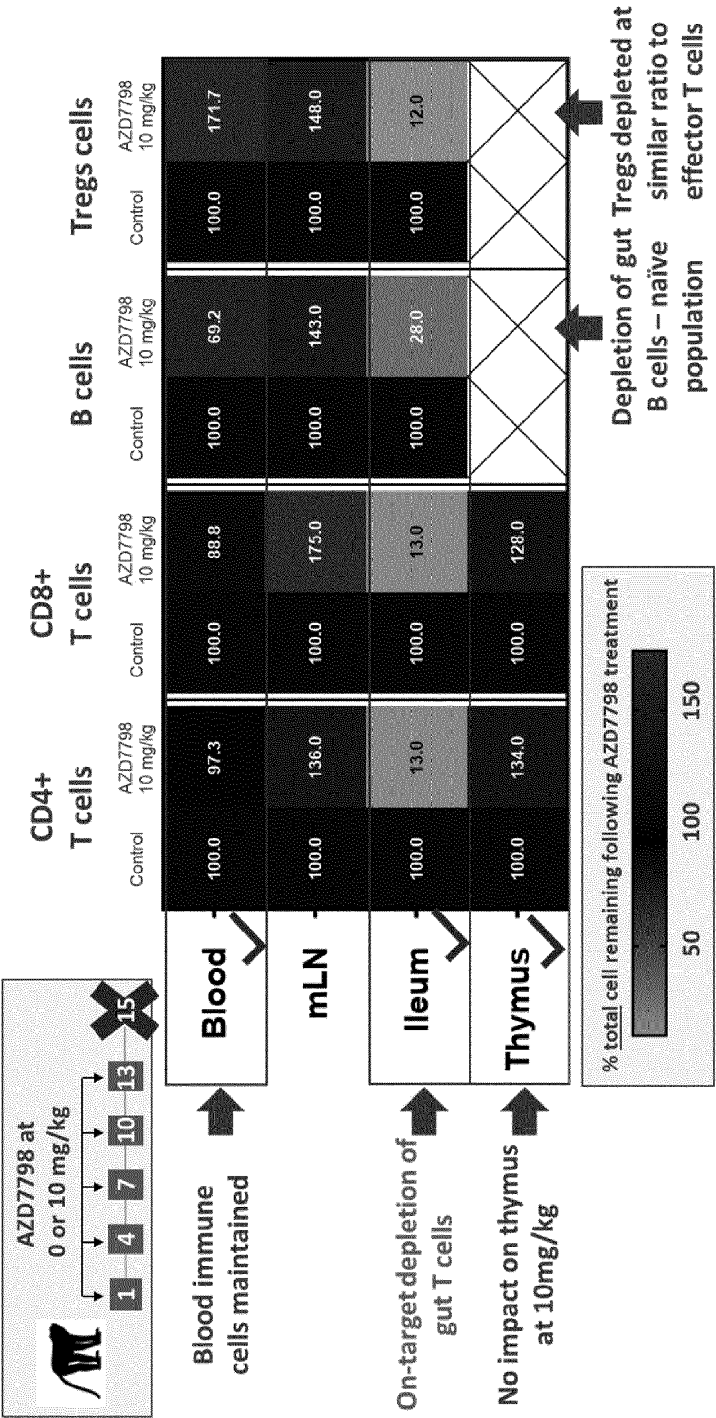


Figure 18A

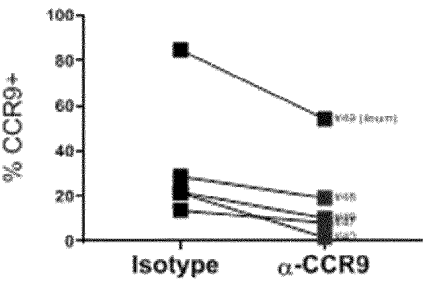


Figure 18B

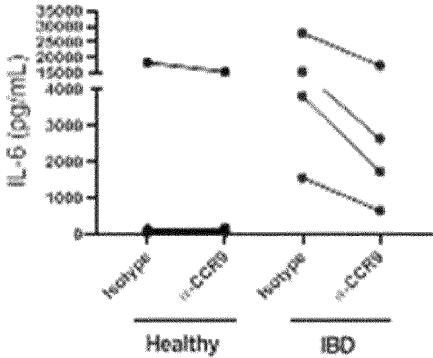


Figure 18C

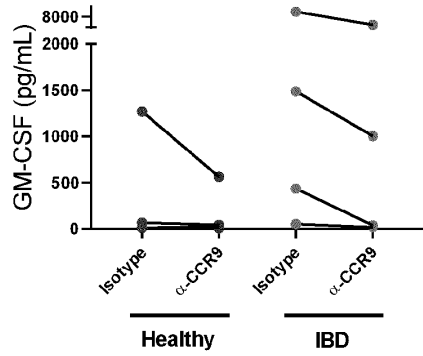


Figure 18D

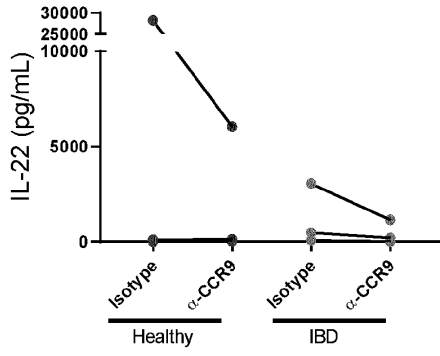


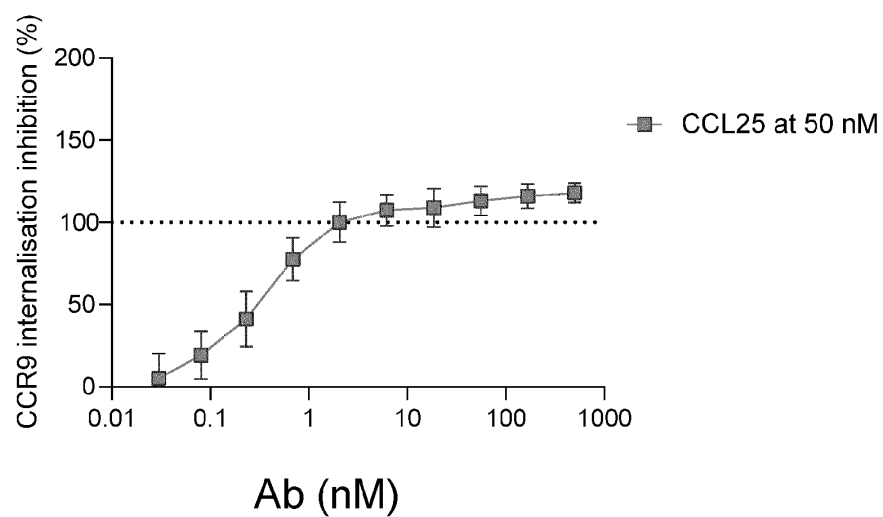
Figure 19

Figure 20

Consensus		
hCCR9B (SEQ ID NO: 82)	MTPTDFTSLPNMADDYGSESTSSMEDYVNFNFTDFYCEKNVRQFASHFLPPLYWLVFIVGALGNSLVILVWYCTRVK	80
hCCR9A (SEQ ID NO: 81)	-----MADDYGSESTSSMEDYVNFNFTDFYCEKNVRQFASHFLPPLYWLVFIVGALGNSLVILVWYCTRVK	68
N-terminus overlap (SEQ ID NO: 80)	MTPTDFTSLPNMADDYGSESTSSMEDYVNFNFTDFYCEKNVRQFASHFLPPLYWLVFIVGALGNSLVILVWYCTRVK	80
	-----MADDYGSESTSSMEDYVNFNFTDFYCEKNVRQFAS	68
Consensus		
hCCR9B (SEQ ID NO: 82)	TMTDMFLNLAIADLLFLVTLPFWAIADADQWKQFTFMCKVWNSMYKMFYSCVLLIMCI SVDRYIAIAQAMRAHTWREK	160
hCCR9A (SEQ ID NO: 81)	TMTDMFLNLAIADLLFLVTLPFWAIADADQWKQFTFMCKVWNSMYKMFYSCVLLIMCI SVDRYIAIAQAMRAHTWREK	148
N-terminus overlap (SEQ ID NO: 80)	TMTDMFLNLAIADLLFLVTLPFWAIADADQWKQFTFMCKVWNSMYKMFYSCVLLIMCI SVDRYIAIAQAMRAHTWREK	160
	-----	148
Consensus		
hCCR9B (SEQ ID NO: 82)	RLLYSKMVCFTTWLAAALCIPEILYSQIKEESGIAICTWYPSDESTKLKSAVLTILKVLILGFFLFFVWVWACCYTIILHT	240
hCCR9A (SEQ ID NO: 81)	RLLYSKMVCFTTWLAAALCIPEILYSQIKEESGIAICTWYPSDESTKLKSAVLTILKVLILGFFLFFVWVWACCYTIILHT	228
N-terminus overlap (SEQ ID NO: 80)	RLLYSKMVCFTTWLAAALCIPEILYSQIKEESGIAICTWYPSDESTKLKSAVLTILKVLILGFFLFFVWVWACCYTIILHT	240
	-----	228
Consensus		
hCCR9B (SEQ ID NO: 82)	LIOAKKSKHKALKVTITVLTVFVLSQFPYNCILLVQTI DAYAMFISNCAVSTNIDICFQVTQTIAFFHSCLPVLVYFV	320
hCCR9A (SEQ ID NO: 81)	LIOAKKSKHKALKVTITVLTVFVLSQFPYNCILLVQTI DAYAMFISNCAVSTNIDICFQVTQTIAFFHSCLPVLVYFV	308
N-terminus overlap (SEQ ID NO: 80)	LIOAKKSKHKALKVTITVLTVFVLSQFPYNCILLVQTI DAYAMFISNCAVSTNIDICFQVTQTIAFFHSCLPVLVYFV	320
	-----	308
Consensus		
hCCR9B (SEQ ID NO: 82)	GERFRDLVKTLKNLGCI SQAQWVSFTREGSLKSSMLLETTSGALS	369
hCCR9A (SEQ ID NO: 81)	GERFRDLVKTLKNLGCI SQAQWVSFTREGSLKSSMLLETTSGALS	357
N-terminus overlap (SEQ ID NO: 80)	GERFRDLVKTLKNLGCI SQAQWVSFTREGSLKSSMLLETTSGALS	369
	-----	36