

CLONE ID	MF1/bkgrd (H929 cell bind)	seq_aa_CDR1	seq_aa_CDR2	seq_aa_CDR3
308607	558.6	GFTFSSYA (SEQ ID NO: 1)	ISGGGST (SEQ ID NO: 5)	VKDWNNTTMITE (SEQ ID NO: 19)
308915	284.8	GFTFTNYA (SEQ ID NO: 2)	ISGGGST (SEQ ID NO: 5)	VKDWNNTTMITE (SEQ ID NO: 19)
314189	123.5	GFTFSSYA (SEQ ID NO: 1)	ITGGGST (SEQ ID NO: 6)	VKDWNNTTMITE (SEQ ID NO: 19)
314196	133.6	GFTFSSYA (SEQ ID NO: 1)	ITGDDGST (SEQ ID NO: 7)	VKDWNNTTMITE (SEQ ID NO: 19)
314201	76.9	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314202	193.1	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314205	102.8	GFTFSSYA (SEQ ID NO: 1)	ITSGGGT (SEQ ID NO: 9)	VKDWNNTTMITE (SEQ ID NO: 19)
314212	125.9	GFTFSSYA (SEQ ID NO: 1)	LTNGDST (SEQ ID NO: 10)	VKDWNNTTMITE (SEQ ID NO: 19)
314213	135.2	GFTFSSYA (SEQ ID NO: 1)	ITSGGGST (SEQ ID NO: 11)	VKDWNNTTMITE (SEQ ID NO: 19)
314219	166.9	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314224	175.8	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314225	148.9	GFTFSSYA (SEQ ID NO: 1)	ITSGDST (SEQ ID NO: 12)	VKDWNNTTMITE (SEQ ID NO: 19)
314228	99.1	GFTFSSYA (SEQ ID NO: 1)	LTSGDST (SEQ ID NO: 13)	VKDWNNTTMITE (SEQ ID NO: 19)
314229	124.2	GFTFSNYA (SEQ ID NO: 3)	ITGDDGST (SEQ ID NO: 7)	VKDWNNTTMITE (SEQ ID NO: 19)
314231	157.3	GFTFSRYA (SEQ ID NO: 4)	IVSGGGT (SEQ ID NO: 14)	VKDWNNTTMITE (SEQ ID NO: 19)
314232	79.0	GFTFSSYA (SEQ ID NO: 1)	ITSGGGT (SEQ ID NO: 11)	VKDWNNTTMITE (SEQ ID NO: 19)
314235	128.3	GFTFSNYA (SEQ ID NO: 3)	LTSGGGST (SEQ ID NO: 15)	VKDWNNTTMITE (SEQ ID NO: 19)
314501	251.1	GFTFTNYA (SEQ ID NO: 2)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314502	169.7	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314503	183.3	GFTFSNYA (SEQ ID NO: 3)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314504	176.8	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314506	243.1	GFTFSNYA (SEQ ID NO: 3)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314508	209.0	GFTFSNYA (SEQ ID NO: 3)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314509	241.5	GFTFSNYA (SEQ ID NO: 3)	IICSGATT (SEQ ID NO: 16)	VKDWNNTTMITE (SEQ ID NO: 19)
314510	171.1	GFTFSNYA (SEQ ID NO: 3)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314512	213.8	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314518	182.9	GFTFSSYA (SEQ ID NO: 1)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314521	234.8	GFTFSNYA (SEQ ID NO: 3)	IVGGGTS (SEQ ID NO: 17)	VKDWNNTTMITE (SEQ ID NO: 19)
314523	195.1	GFTFSNYA (SEQ ID NO: 3)	ITGDDGST (SEQ ID NO: 7)	VKDWNNTTMITE (SEQ ID NO: 19)
314524	82.9	GFTFSSYA (SEQ ID NO: 1)	IVGGGTS (SEQ ID NO: 17)	VKDWNNTTMITE (SEQ ID NO: 19)
314527	134.3	GFTFSSYA (SEQ ID NO: 1)	IICSGGGT (SEQ ID NO: 18)	VKDWNNTTMITE (SEQ ID NO: 19)
314528	154.8	GFTFSNYA (SEQ ID NO: 3)	ITSGGGST (SEQ ID NO: 11)	VKDWNNTTMITE (SEQ ID NO: 19)
314530	222.3	GFTFSSYA (SEQ ID NO: 1)	IVGGGTS (SEQ ID NO: 17)	VKDWNNTTMITE (SEQ ID NO: 19)
314533	205.3	GFTFSNYA (SEQ ID NO: 3)	IICSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)

FIG. 1

FIG. 2

CLONE ID	seq_aa_FRI_FR4
308607	EVQLLESGGGLAQPGGSLRLSCAASGFTFSSYAMNWIRQAPGKGLEWVSGISGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 20)
308915	EVQLLESGGGLVQPGRSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGISGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 21)
314189	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMTWVRQAPGKGLEWVSGITENGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 22)
314196	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGITGGSTFYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 23)
314201	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 24)
314202	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 25)
314205	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 26)
314212	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGLTGNGDSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 27)
314213	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 28)
314219	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 29)
314224	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 30)
314225	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYAASVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 31)
314228	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGLTGSGDSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 32)
314229	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMTWIRQAPGKGLEWVSGITGGSTFYADSVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 33)
314231	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWIRQAPGKGLEWVSGIVGSGGNTYYADSVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 34)
314232	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGITGGSTYYADSVKGRFSISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 5)
314235	EVQLLESGGGLVQPGGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGLTGSGGSTYYADSVKGRFTISRDNKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 36)

Fig 2 (CONT.)

314501	EVQLLESGGGLVQPGGSLRLSCAASGFTFTNYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 37)
314502	EVQLLESGGGLVQPGRSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 38)
314503	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFSISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 39)
314504	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 40)
314506	EVQLLESGGGLVQPGRSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 41)
314508	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 42)
314509	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGATYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAIYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 43)
314510	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 44)
314512	EVQLLESGGGLVQPGRSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 45)
314518	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 46)
314521	EVQLLESGGGLVQPGRSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 47)
314523	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMTWIRQAPGKGLEWVSGITGGGGTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 48)
314524	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMTWIRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 49)
314527	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAIYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 50)
314528	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGITGGGGTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 51)
314530	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 52)
314533	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 53)

FIG. 3

CLONE ID	MFI/bgnd (H929 cell bind)	MFI/bgnd (RPMI8226 cell bind)	% APRIL binding	ELISA hBCMA/bgnd	ELISA IgG1k/bgnd	ELISA BvP score
308607	123.5	not measured	not measured	not measured	not measured	not measured
308915	133.6	not measured	not measured	not measured	not measured	not measured
314189	123.5	not measured	not measured	not measured	not measured	not measured
314195	133.6	not measured	not measured	not measured	not measured	not measured
314201	123.5	not measured	not measured	not measured	not measured	not measured
314202	133.6	not measured	not measured	not measured	not measured	not measured
314205	102.8	not measured	not measured	not measured	not measured	not measured
314212	125.9	not measured	not measured	not measured	not measured	not measured
314213	135.2	not measured	not measured	not measured	not measured	not measured
314219	126.9	not measured	not measured	not measured	not measured	not measured
314224	125.2	not measured	not measured	not measured	not measured	not measured
314225	148.9	not measured	not measured	not measured	not measured	not measured
314228	99.1	not measured	not measured	not measured	not measured	not measured
314229	124.2	not measured	not measured	not measured	not measured	not measured
314231	187.3	not measured	not measured	not measured	not measured	not measured
314232	78.8	not measured	not measured	not measured	not measured	not measured
314235	128.3	not measured	not measured	not measured	not measured	not measured
314501	123.5	not measured	not measured	not measured	not measured	not measured
314502	133.6	not measured	not measured	not measured	not measured	not measured
314503	123.5	not measured	not measured	not measured	not measured	not measured
314504	133.6	not measured	not measured	not measured	not measured	not measured
314506	123.5	not measured	not measured	not measured	not measured	not measured
314508	133.6	not measured	not measured	not measured	not measured	not measured
314509	123.5	not measured	not measured	not measured	not measured	not measured
314510	133.6	not measured	not measured	not measured	not measured	not measured
314512	123.5	not measured	not measured	not measured	not measured	not measured
314518	133.6	not measured	not measured	not measured	not measured	not measured
314521	123.5	not measured	not measured	not measured	not measured	not measured
314523	133.6	not measured	not measured	not measured	not measured	not measured
314524	123.5	not measured	not measured	not measured	not measured	not measured
314527	134.3	not measured	not measured	not measured	not measured	not measured
314528	134.3	not measured	not measured	not measured	not measured	not measured
314530	123.5	not measured	not measured	not measured	not measured	not measured
314533	133.6	not measured	not measured	not measured	not measured	not measured

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FIG. 4

DAY 35 SERUM - ELISA TESTING (testing from 6/12 animals)

Assayed 1:500 dilution of d35 serum

Signal/H.S.A, adjusted for each animal

huBCMA-Fc	CyBCMA	huBCMA e coll frag	huBCMA full wht germ	hu IgG1kappa	H.S.A	Animal
325	296	501	245	188		r12431 (HC27)
281	226	417	247	207		r12455 (HC27)
262	267	418	245	303		r12514 (HC27)
314	308	519	444	24		r12271 (HC28)
260	290	421	413	296		r12276 (HC28)
594	476	926	935	176		r12278 (HC28)
1102	28	1262	1194	11		r12516 (HC27)
62	50	13	40	6		goat anti huBCMA

FIG. 5

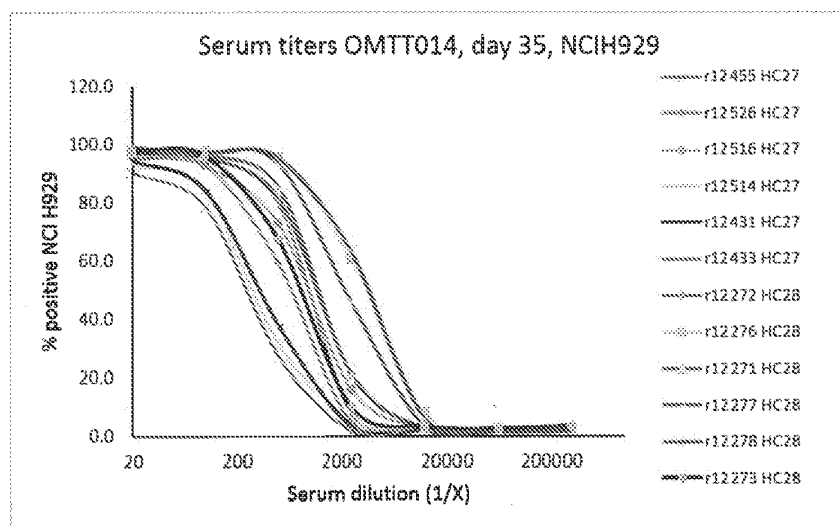


FIG. 6

