

CLONE ID	MF1/bkgd (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)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314202	193.1	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314205	102.8	GFTFSSYA (SEQ ID NO: 1)	ITSGGGIT (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)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314224	175.8	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (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)	ITSGGGST (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)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314502	169.7	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314503	183.3	GFTFSNYA (SEQ ID NO: 3)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314504	176.8	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314506	243.1	GFTFSNYA (SEQ ID NO: 3)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314508	209.0	GFTFSNYA (SEQ ID NO: 3)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314509	241.5	GFTFSNYA (SEQ ID NO: 3)	IIGSGATT (SEQ ID NO: 16)	VKDWNNTTMITE (SEQ ID NO: 19)
314510	171.1	GFTFSNYA (SEQ ID NO: 3)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314512	213.8	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314518	182.9	GFTFSSYA (SEQ ID NO: 1)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)
314521	234.8	GFTFSNYA (SEQ ID NO: 3)	IVGGGGTS (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)	IVGGGGTS (SEQ ID NO: 17)	VKDWNNTTMITE (SEQ ID NO: 19)
314527	134.3	GFTFSSYA (SEQ ID NO: 1)	IIGSGGGT (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)	IVGGGGTS (SEQ ID NO: 17)	VKDWNNTTMITE (SEQ ID NO: 19)
314533	205.3	GFTFSNYA (SEQ ID NO: 3)	IIGSGGST (SEQ ID NO: 8)	VKDWNNTTMITE (SEQ ID NO: 19)

FIG. 1

FIG. 2

CLONE ID	seq_aa_FRI_FR4
308607	EVQLLESGGGLAQPGGSLRLSCAASGFTFSSYAMNWIRQAPGKGLEWVSGISGGSTYYADSVKGRFTISRDN SKNTVY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 20)
308915	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGISGGSTYYADSVKGRFTISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 21)
314189	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMTWVRQAPGKGLEWVSGITENGSTYYADSVKGRFTISRDN SKNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 22)
314196	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGITGGSTFYADSVKGRFTISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 23)
314201	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFSISRDN SKNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 24)
314202	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFTISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 25)
314205	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFTISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 26)
314212	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGLTGNGDSTYYADSVKGRFTISRDN SKNTVY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 27)
314213	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSTYYADSVKGRFSISRDN SKNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 28)
314219	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFTISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 29)
314224	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGIHGGSTYYADSVKGRFTISRDN SKNTVY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 30)
314225	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGKGLEWVSGITGGSDSTYYAASVKGFRFSISRDN SQNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 31)
314228	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGLTGSDSTYYADSVKGRFTISRDN SKNTVY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 32)
314229	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMTWIRQAPGKGLEWVSGITGGSTFYADSVKGRFSISRDN SKNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 33)
314231	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWIRQAPGKGLEWVSGIVGSGGNTYYADSVKGRFSISRDN SKNTLY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 34)
314232	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMSWVRQAPGKGLEWVSGITGGSTYYADSVKGRFSISRDN SKNTL DLQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 5)
314235	EVQLLESGGGLVQPGSLRLSCAASGFTFSSYAMNWVRQAPGNGLEWVSGLTGSGGSTYYADSVKGRFTISRDN SKNTVY LQMNSLRA EDTAVYYCVKDWNTTMITERGGQTLVTSS (SEQ ID NO: 36)

Fig 2 (CONT.)

314501	EVQLLESGGGLVQPGGSLRLSCAASGFTFTNYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 37)
314502	EVQLLESGGGVVPQGRSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 38)
314503	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFSISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 39)
314504	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSL RV EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 40)
314506	EVQLLESGGGVVPQGRSLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 41)
314508	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 42)
314509	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGIHSGGATYYADSVKGRFTISRDN SKNTLNQMNSLRA EDTAIYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 43)
314510	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMSWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 44)
314512	EVQLLESGGGVVPQGRSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 45)
314518	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGSTFYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 46)
314521	EVQLLESGGGLVQPGESLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 47)
314523	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMTWIRQAPGKGLEWVSGITDGGGTFYADSVKGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 48)
314524	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMTWIRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 49)
314527	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMSWVRQAPGKGLEWVSGIHSGGGTYYADSVKGRFTISRDN SKNTLNQMNSLRA EDTAIYYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 50)
314528	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGITGSGGGTYYADSVKGRFTISRDN SKNTLYLQMNSL RV EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 51)
314530	EVQLLESGGGLVQPGGSLRLSCAASGFTFSYAMNWVRQAPGKGLEWVSGIVGGGGTYYADSVRGRFTISRDN SKNTLYLQMNSLRA EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 52)
314533	EVQLLESGGGLVQPGGSLRLSCAASGFTFSNYAMNWVRQAPGKGLEWVSGIHSGGGSTYYADSVKGRFTISRDN SKNTLYLQMNSL RV EDTAVVYCVKDWNTTMITERGQGLTVTVSS (SEQ ID NO: 53)

FIG. 3

CLONE ID	MFI/bgnd (H929 cell bind)	MFI/bgnd (RPMI8226 cell bind)	% APRIL binding	ELISA hbcMA/bgnd	ELISA IgG1/bgnd	ELISA BvP score
308607	22.9					
308915	22.9					
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	99.2	not measured	not measured	not measured	not measured	not measured
314202	155.5	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	146.9	not measured	not measured	not measured	not measured	not measured
314224	75.2	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	157.3	not measured	not measured	not measured	not measured	not measured
314232	79.8	not measured	not measured	not measured	not measured	not measured
314235	128.3	not measured	not measured	not measured	not measured	not measured
314501	20.2	not measured	not measured	not measured	not measured	not measured
314502	173.7	not measured	not measured	not measured	not measured	not measured
314503	297.2	not measured	not measured	not measured	not measured	not measured
314504	244.9	not measured	not measured	not measured	not measured	not measured
314506	297.1	not measured	not measured	not measured	not measured	not measured
314508	212.5	not measured	not measured	not measured	not measured	not measured
314509	211.2	not measured	not measured	not measured	not measured	not measured
314510	171.1	not measured	not measured	not measured	not measured	not measured
314512	217.6	not measured	not measured	not measured	not measured	not measured
314518	217.7	not measured	not measured	not measured	not measured	not measured
314521	217.5	not measured	not measured	not measured	not measured	not measured
314523	277.2	not measured	not measured	not measured	not measured	not measured
314524	23.9	not measured	not measured	not measured	not measured	not measured
314527	134.3	not measured	not measured	not measured	not measured	not measured
314528	154.8	not measured	not measured	not measured	not measured	not measured
314530	222.7	not measured	not measured	not measured	not measured	not measured
314533	207.8	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	1287	1194	11		r12516 (HC27)
62	50	53	40	6		goat anti huBCMA

FIG. 5

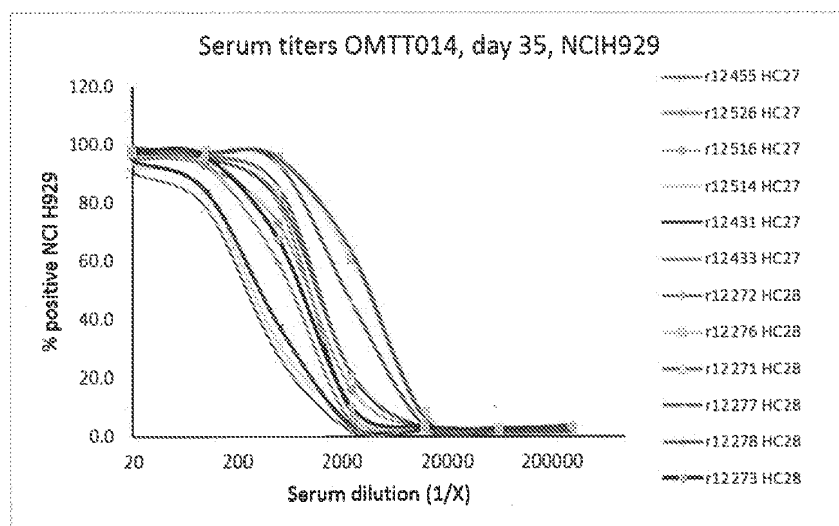


FIG. 6

