

FIG. 1

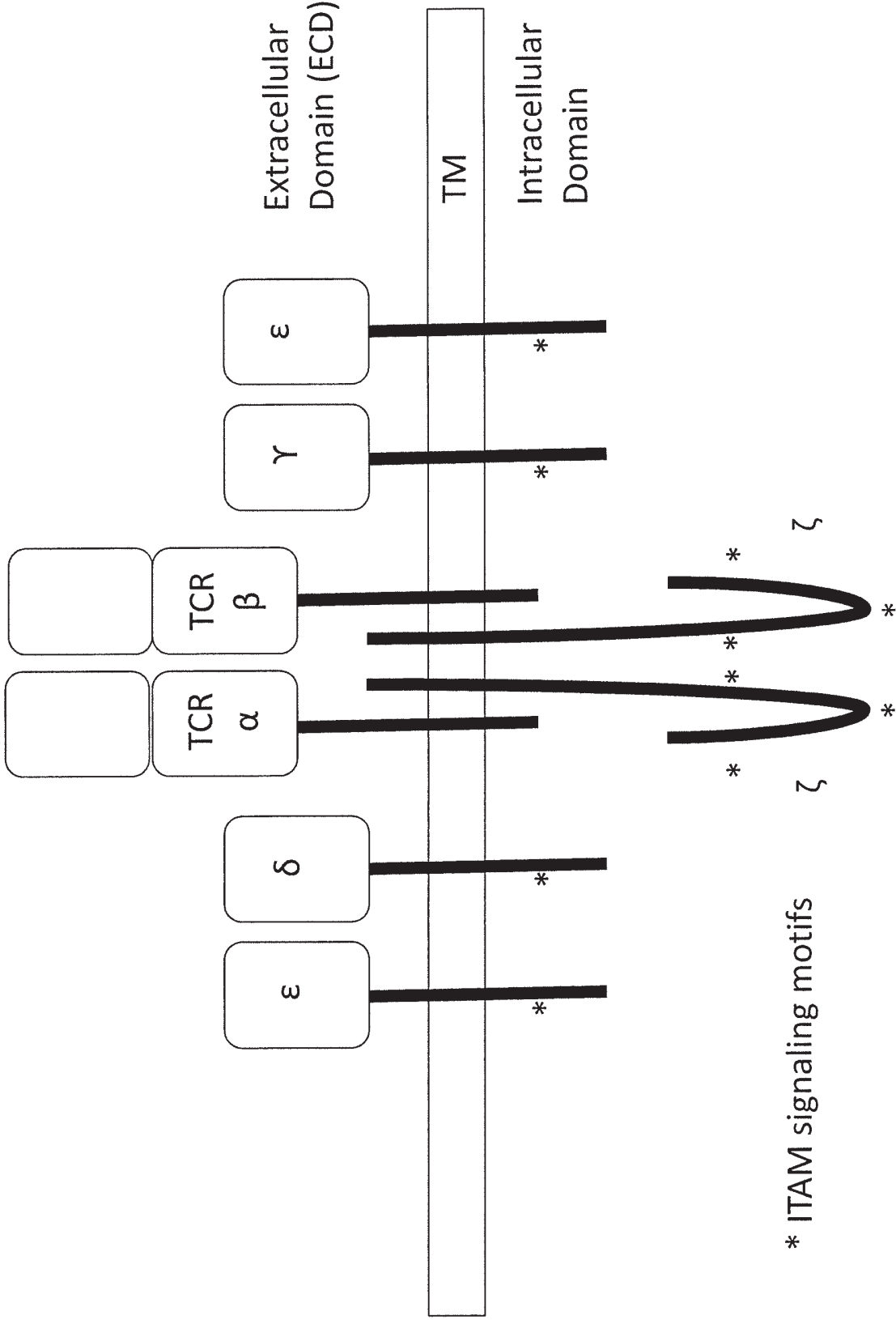


FIG. 2A

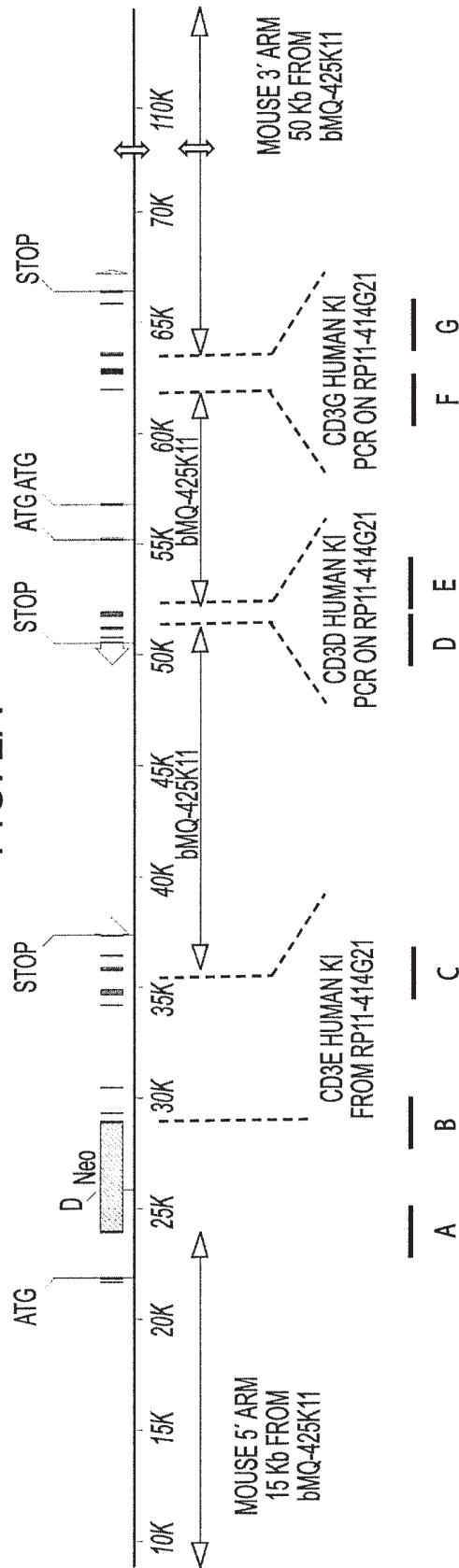


FIG. 2B

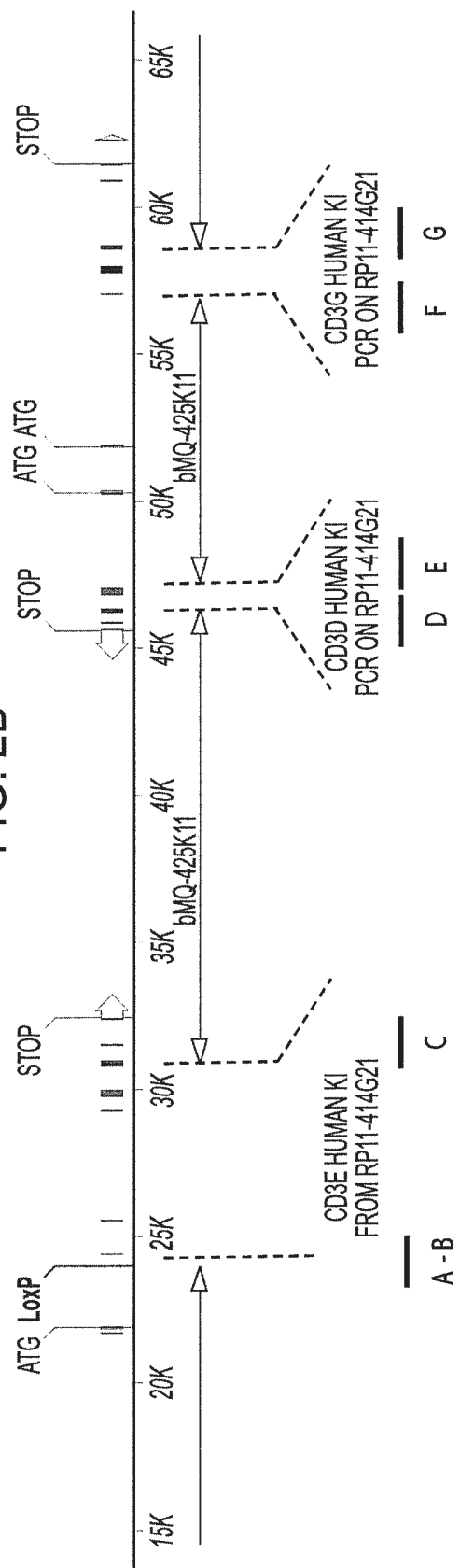


FIG. 3

CD3e humanized protein

(SEQ ID NO: 24)

MRWNTFWGILCLSLAVGVWGQDGNEMGGITQTPYKV/SISGTTVILTCPQ
YPGSEILWQHNDKNIGGDEDDKNIGSDEDLHSLKEFSELEQSGYYVCYPRGSK
PEDANFYLYLRARVCENCMEMDVMSVAIIIVDITLGLLMVIYYWSKNRKAK
AKPVTRGTGAGSRPRGQNKERPPVPNPDPYEPYIRKGQRDLYSGLNQRAV*

CD3d humanized protein

(SEQ ID NO:25)

MEHSGILASLILIAVLPPQVSPFKIPIEELEDRVFVNCNTSITWVEGTVGTLSDITRL
DLGKRILDPRGIYRCNGTDIYKDKESTVQVHYRMCQSCVELDPATVAGVIFIDLIA
TLLALGVYCFAGHETGRPSGAAEVQALLKNEQLYQPLRDREDTQYSRLGGNWP
RNKKS*

CD3g humanized protein

(SEQ ID NO:26)

MEQRKGLAGLFLVISLLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNIT
WFKDGKMIGFLTEDKKKWNLGSNAKDPRGRMYQCKGSQNKSKPLQVYYRMC
QNCIELNAATISGFIFAEVISIFFLALGVYLIAGQDGVQRQSRASDKQTLLQNEQLY
QPLKDREYDQYSHLQGNQLRKK*

Underscored residues coded by introduced human exons

FIG. 4

mCd3e/hCD3E protein alignment

[illegible]

mCd3d/hCD3D protein alignment

[illegible]

mCd3g/hCD3G protein alignment

[illegible]

FIG. 5A

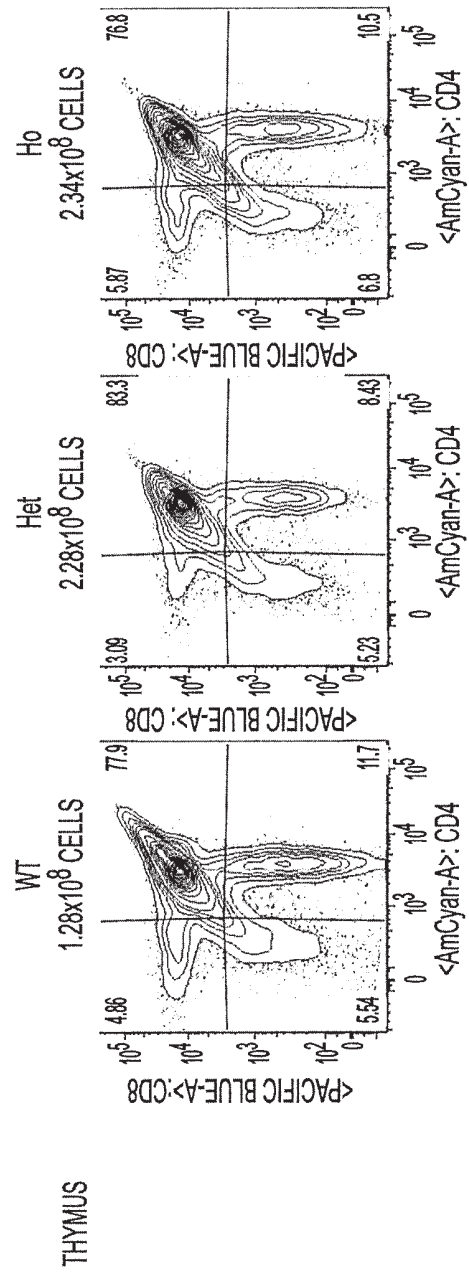


FIG. 5B

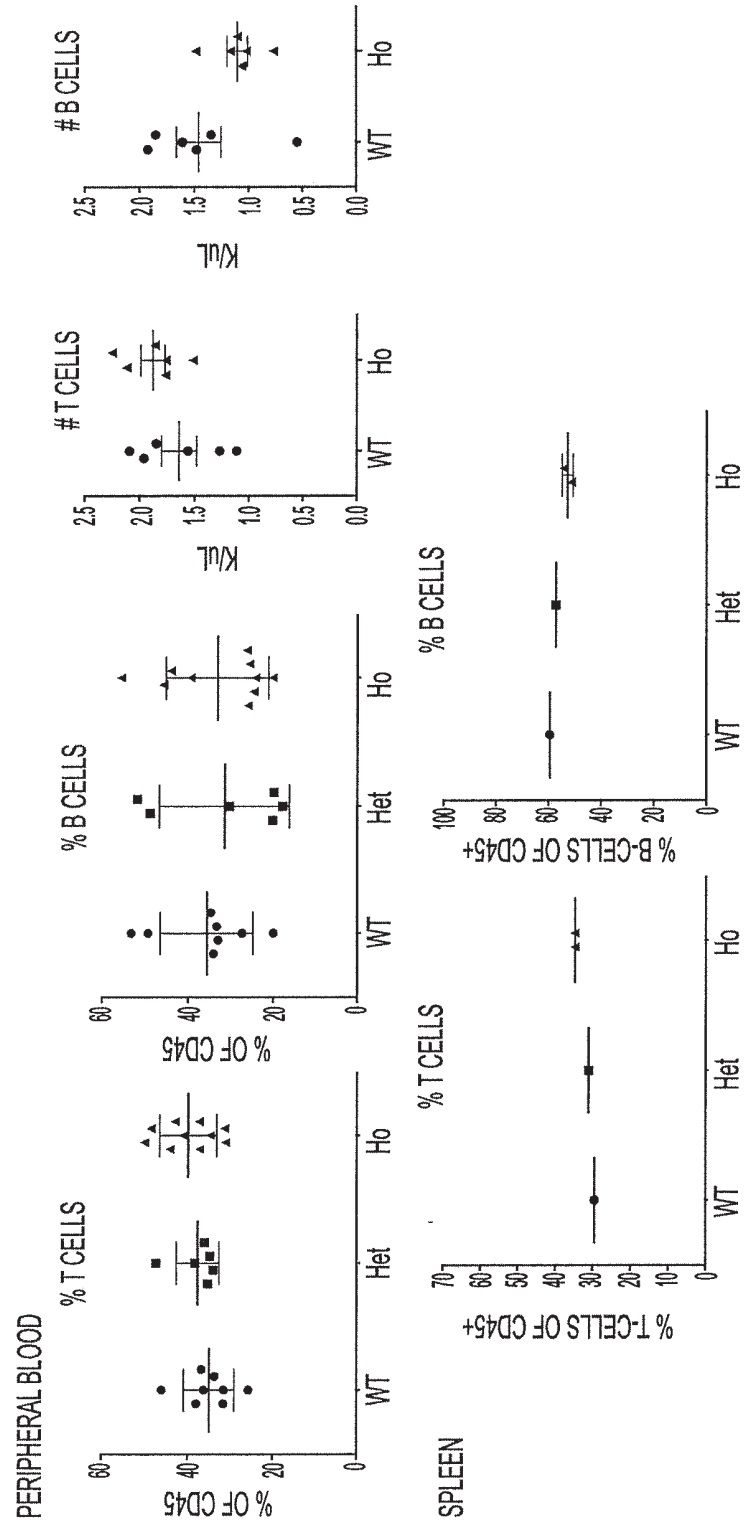
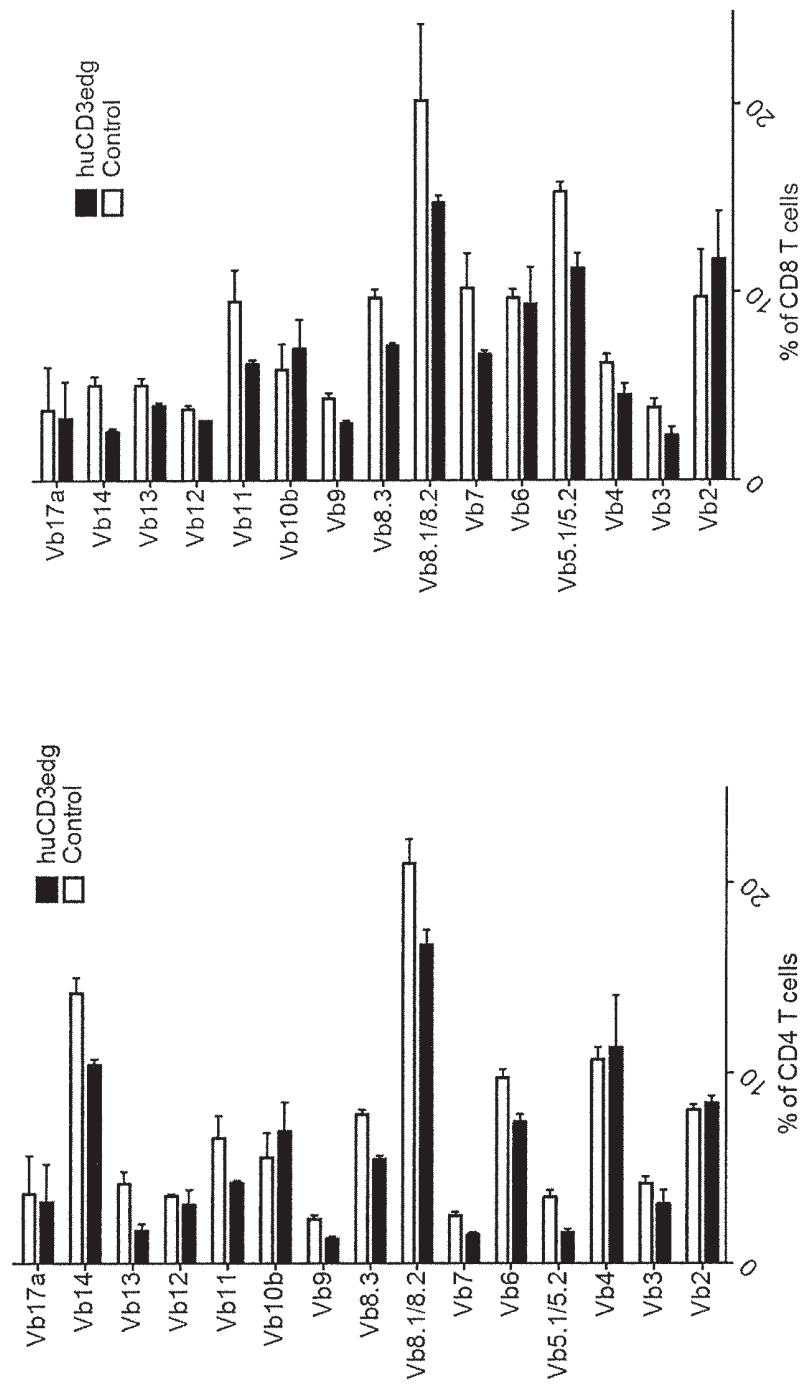


FIG. 5C



Humanized CD3 Mice Infected with LCMV Clone 13
with or without Previous LCMV Armstrong Infection

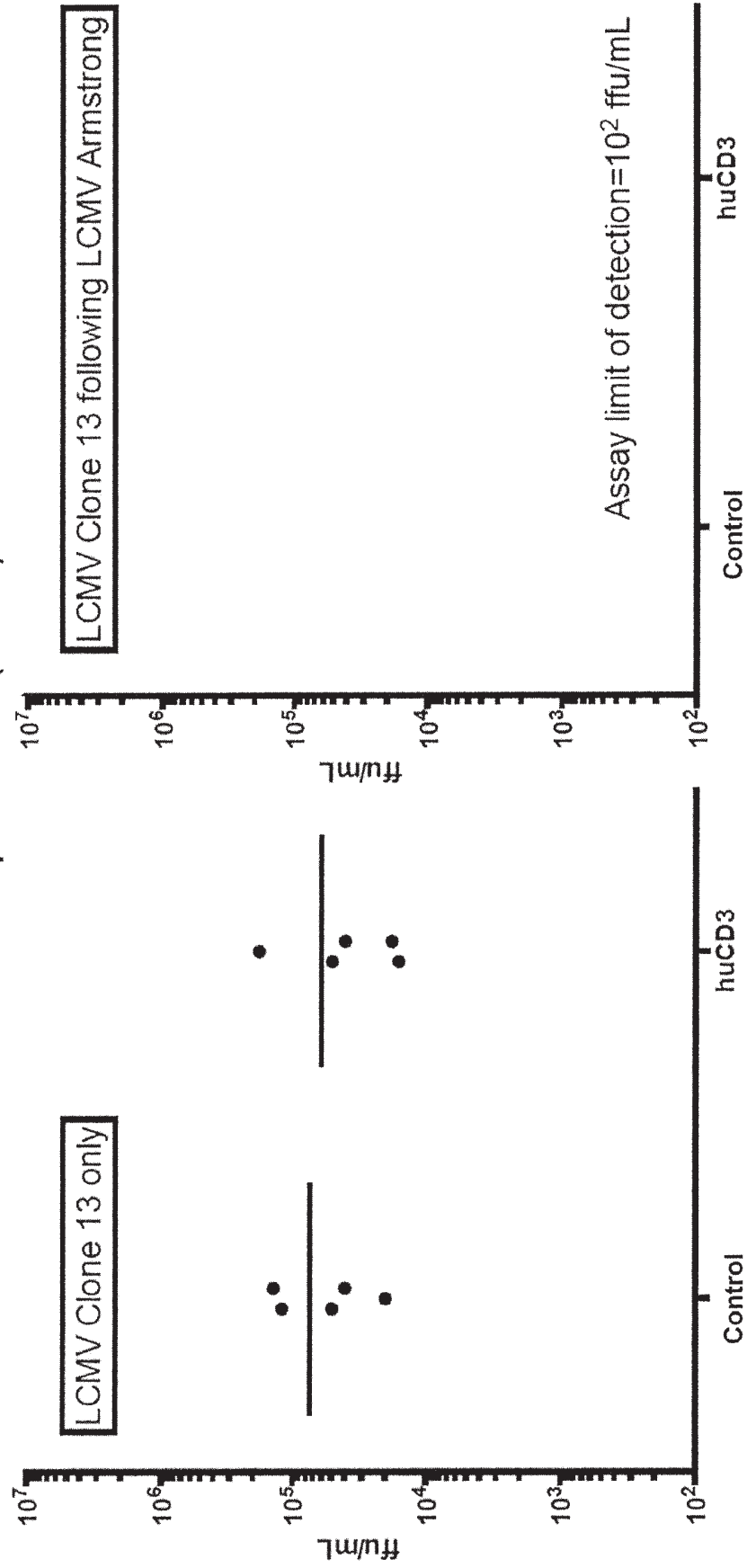
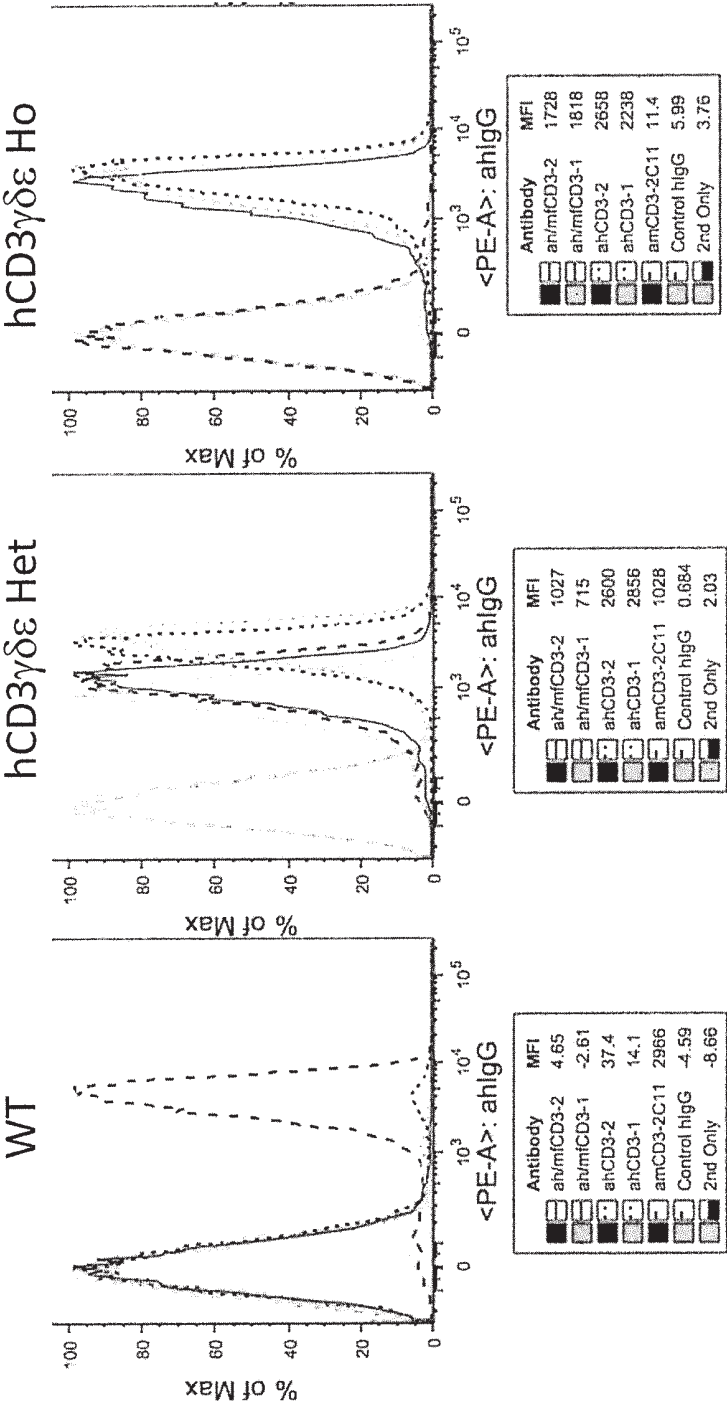


FIG. 6A

FIG. 6B

FIG. 7



- ah/mf = anti-human CD3 antibodies that cross-react to cynomolgus monkey CD3
- ah = anti-human CD3 antibodies that do not cross-react to cynomolgus monkey CD3

FIG. 8A

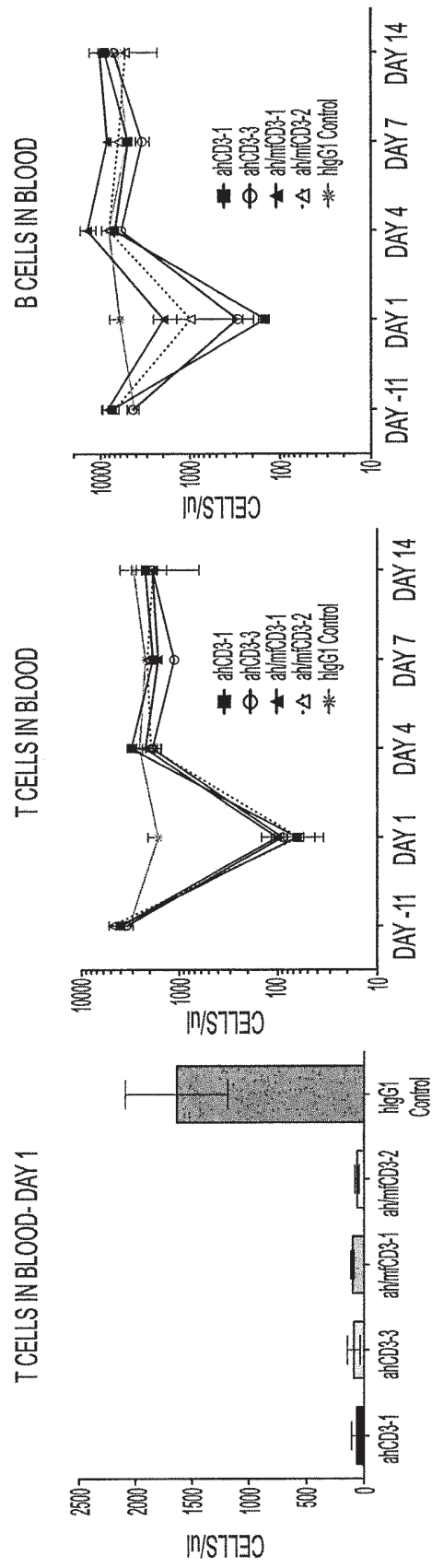


FIG. 8B

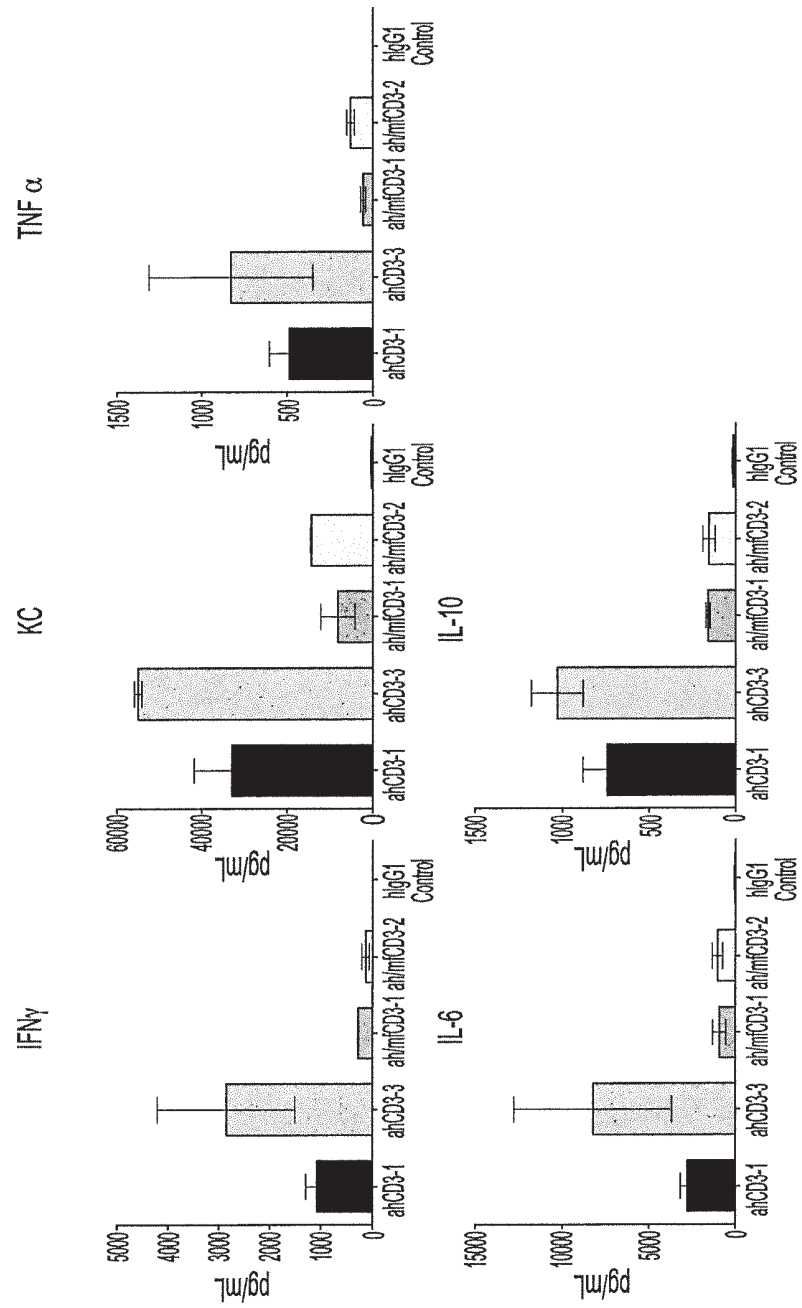


FIG. 9

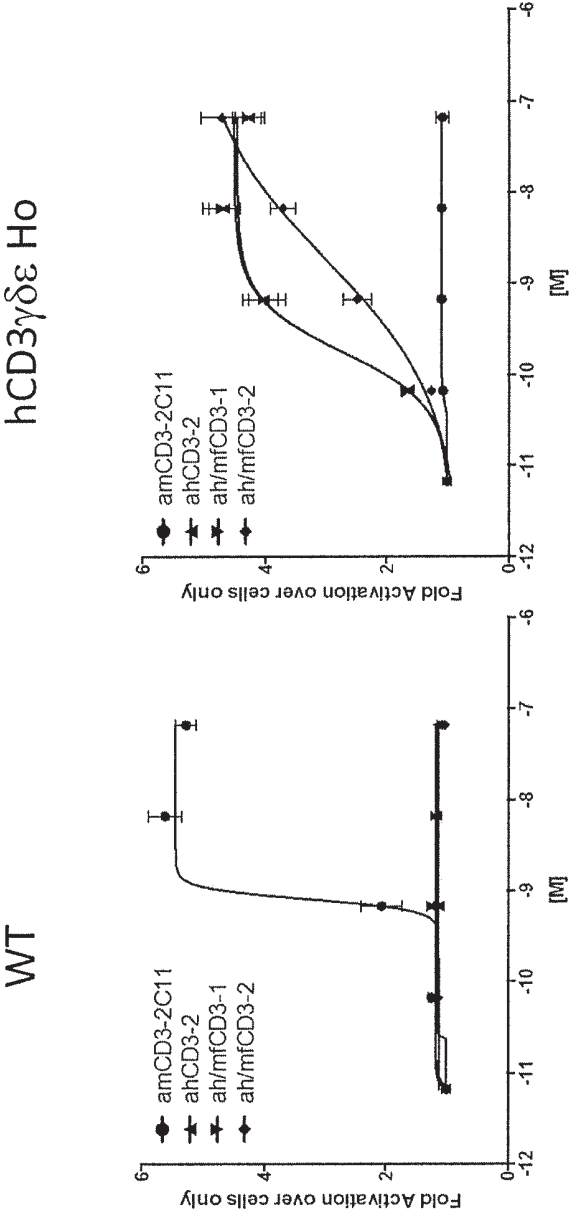
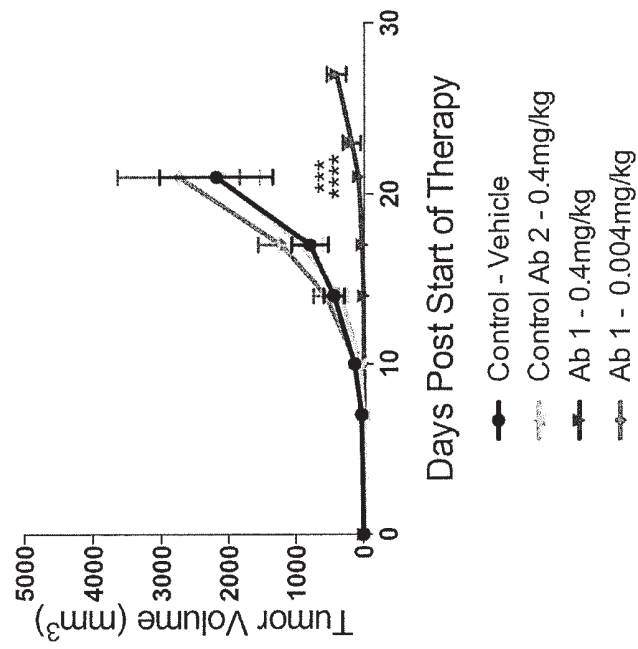


FIG. 10

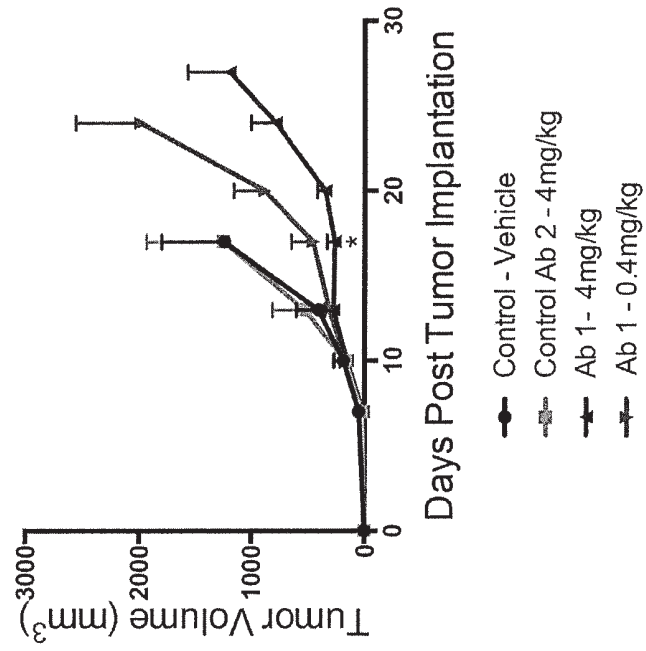
Genotype	ECD	T cell development	Responds to anti-mCD3	Binds anti-hCD3	Responds to anti-hCD3
WT	Mouse	Normal	Yes	No	No
hCD3gde-homozygous	Human	Normal	No	Yes, all antibodies tested, including cynomolgus monkey cross-reacting antibodies	Yes, all antibodies tested, including cynomolgus monkey cross-reacting antibodies

FIG. 11A



**** - compared to vehicle; *** - compared to Control Ab 2 control
 Data represents the composite data from n=5 mice per group. Data are expressed as mean (SEM) and were analysed using analysis of variance (ANOVA) and post hoc tests to probe significant effects (Tukey's for two-way ANOVA).

FIG. 11B



* - compared to vehicle and antibody control
 Data represents the composite data from n=5 mice per group. Data are expressed as mean (SEM) and were analysed using analysis of variance (ANOVA).