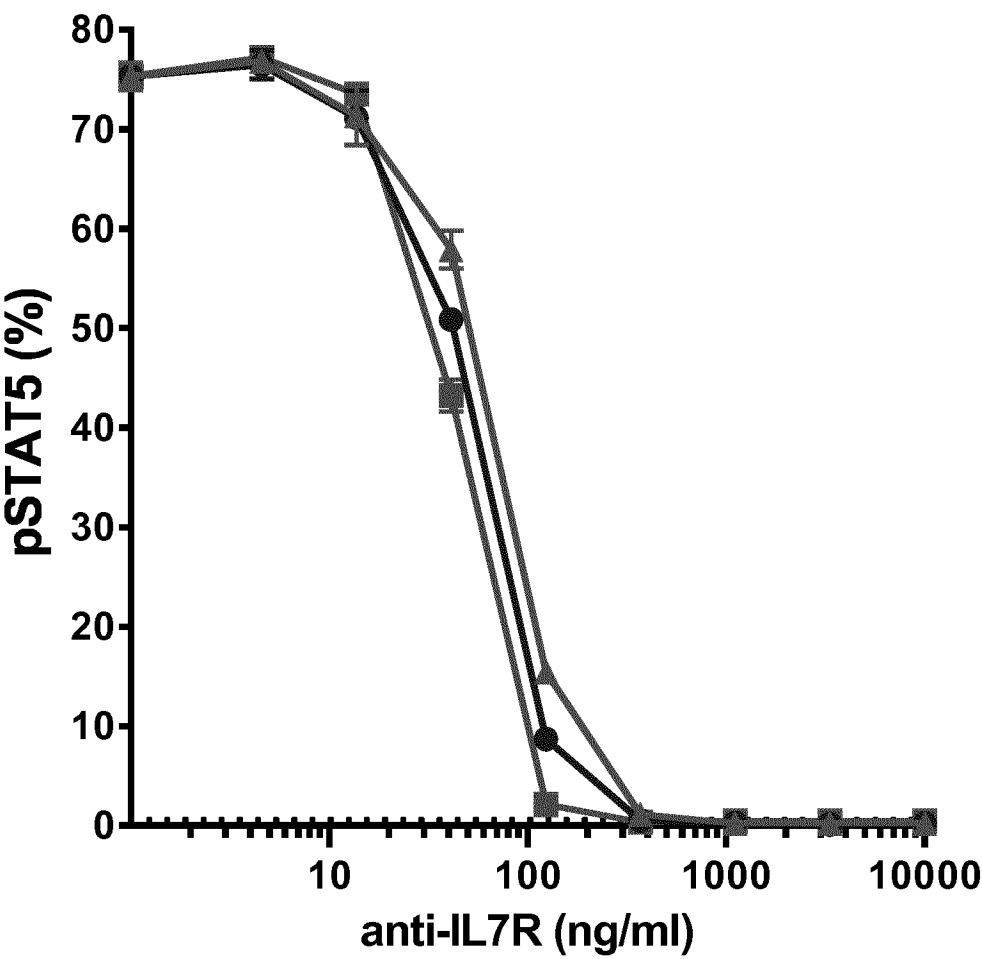
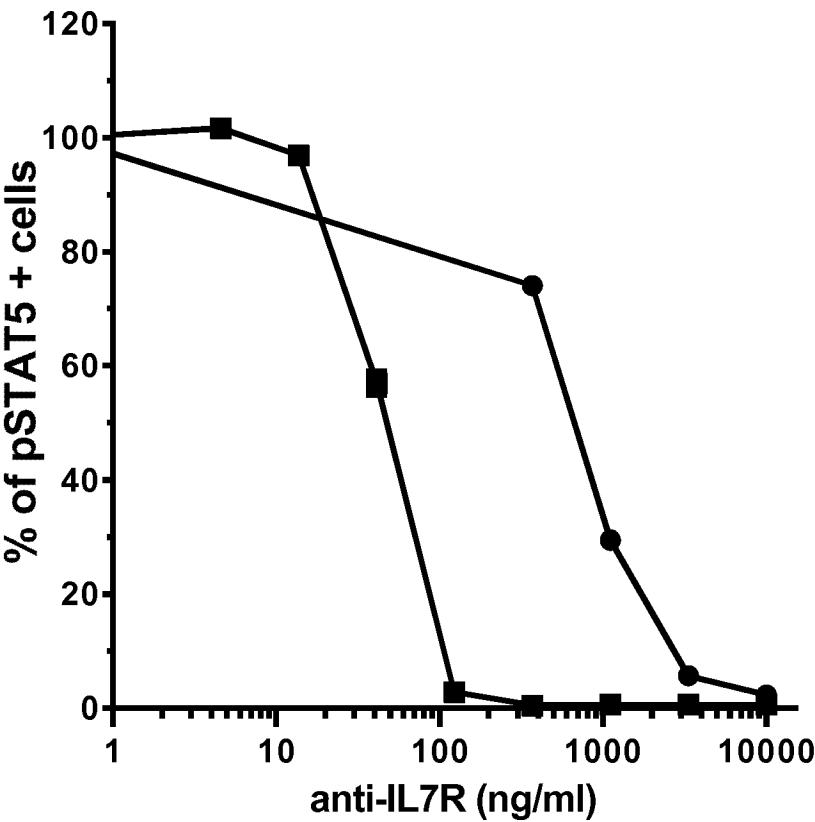


Figure 1



A.



B.

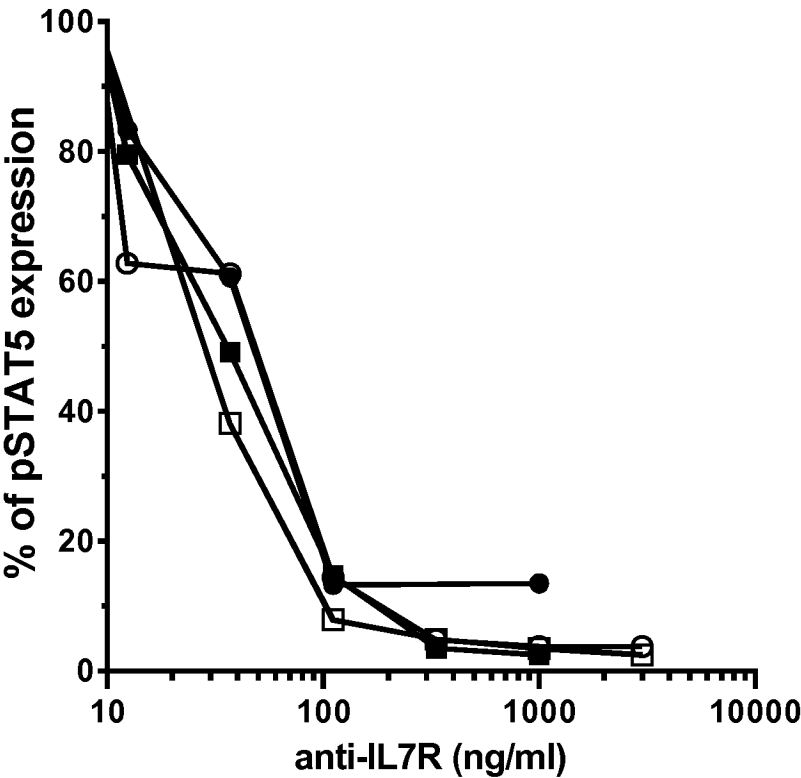


Figure 2

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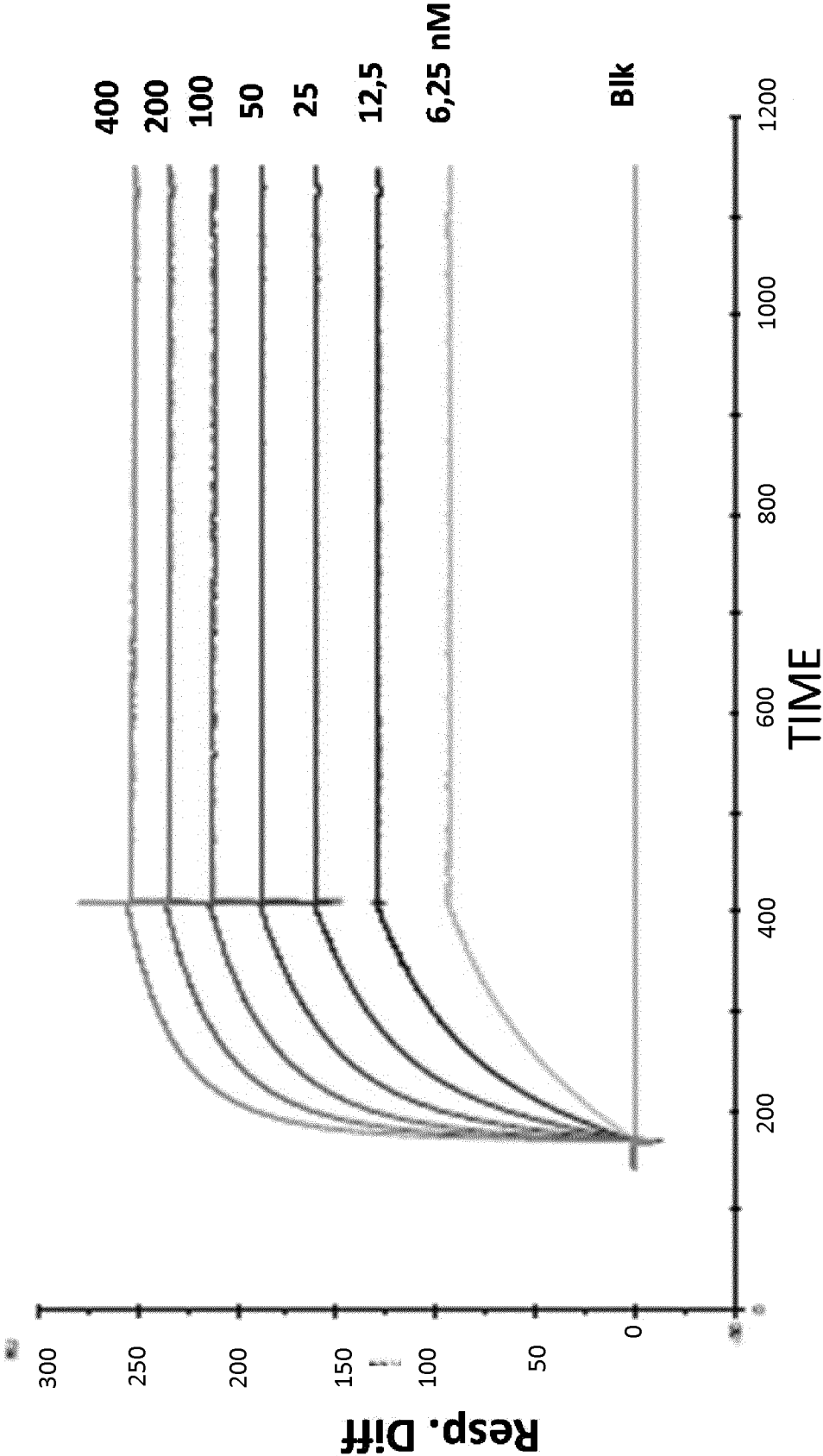


Figure 3

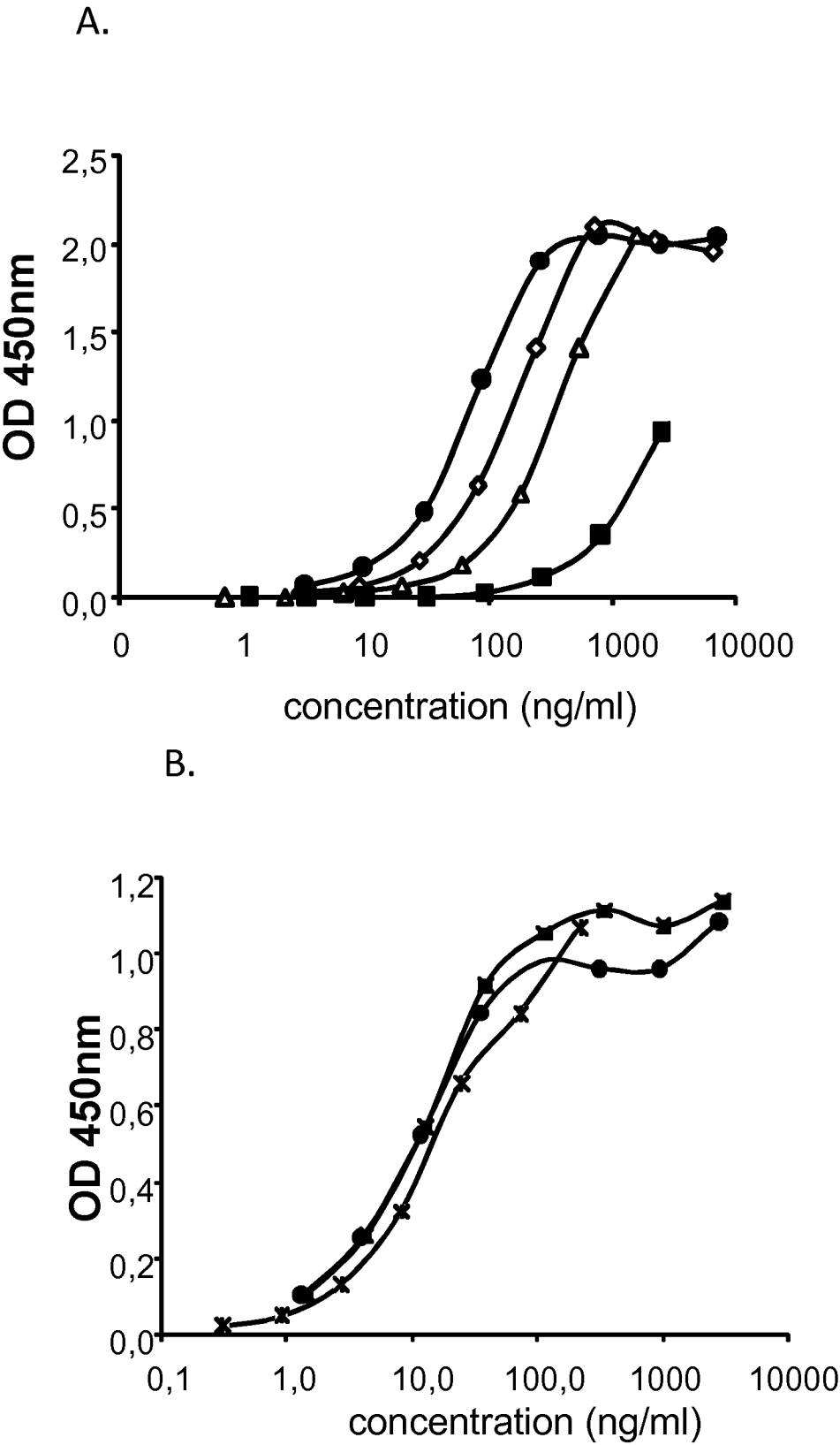
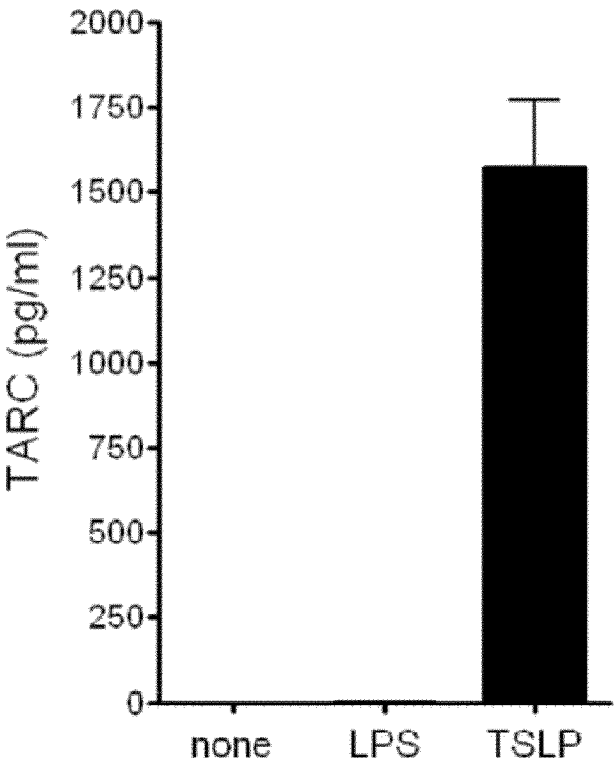


Figure 4

A.



B.

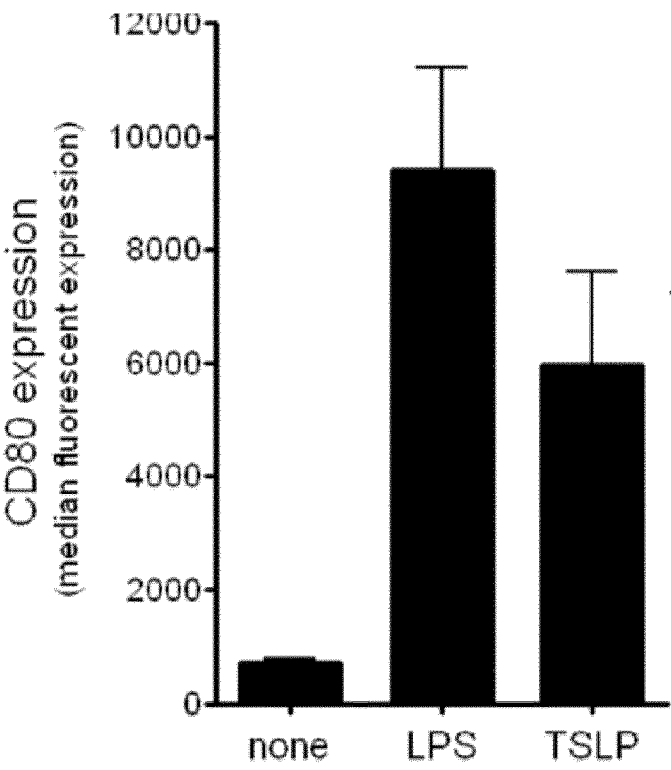


Figure 5

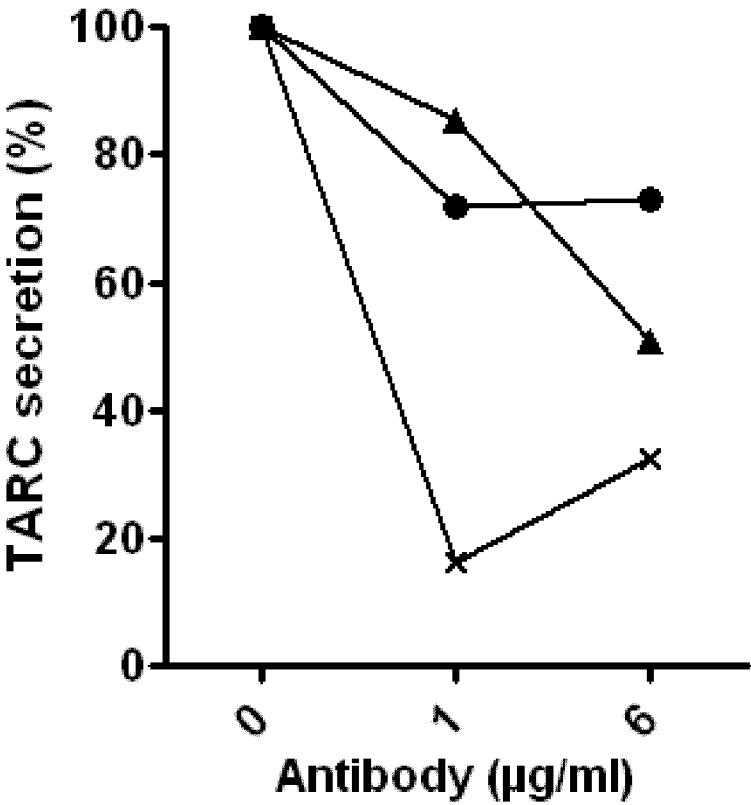


Figure 6

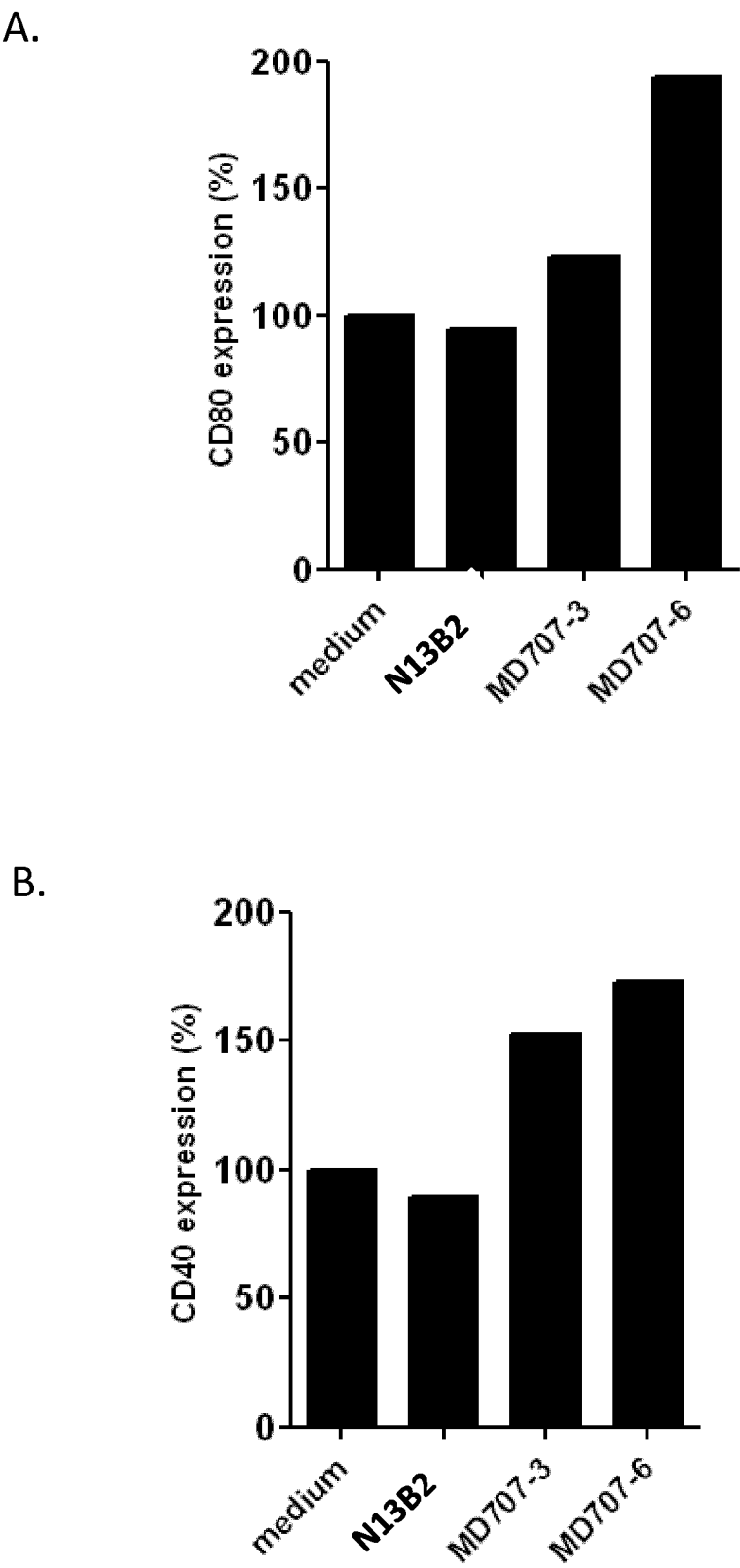


Figure 7

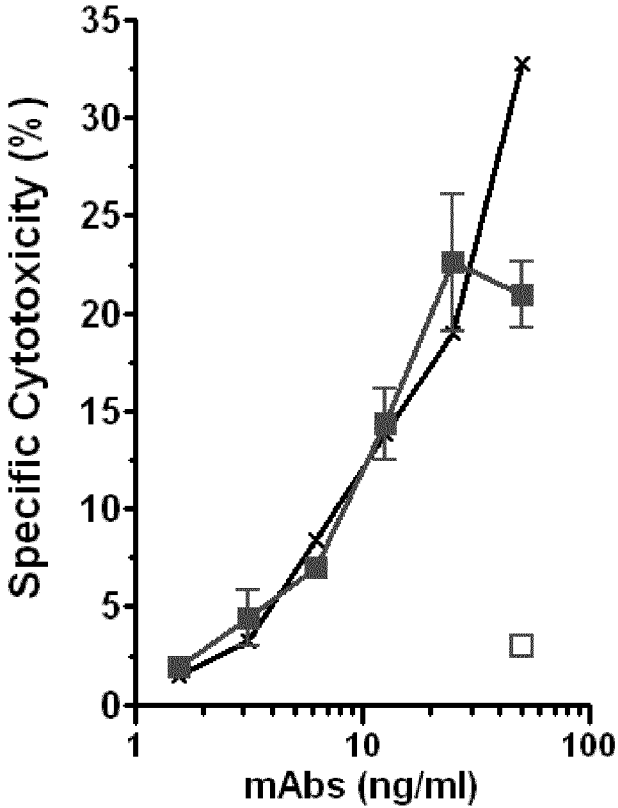


Figure 8

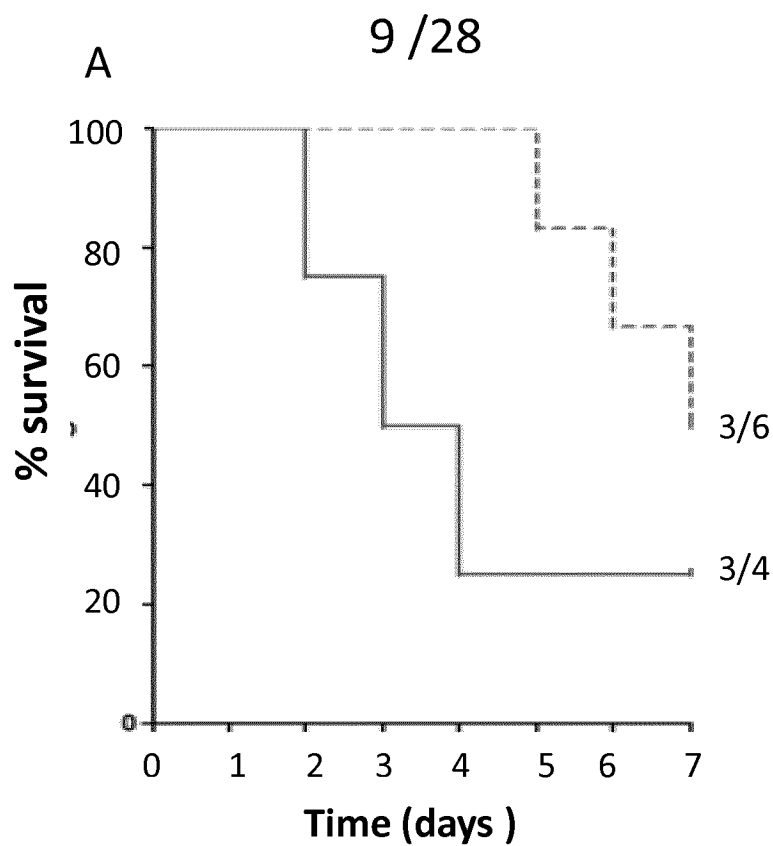
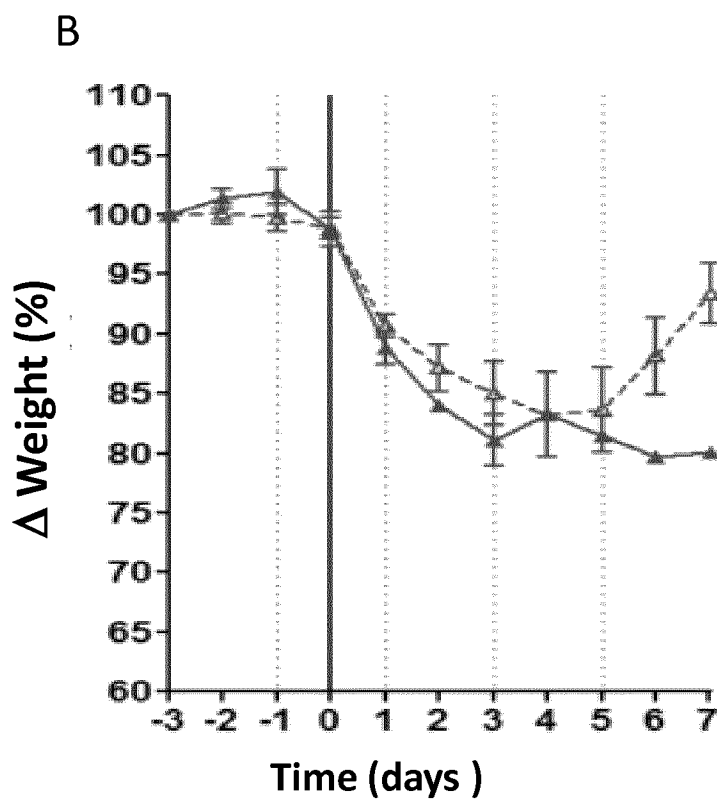


Figure 9

Figure 10

VH-FCG4M (S228P) - DNA 11 / 28

GCGGTGCAGCTGGTGGAGTCTGGGGGAGGCCTAGTGCAGCCTGGAGGGT
 CCCTGAAACTCTCCTGTGCAGTCTCAGGATTCACTCTCAGTGACTATTACAT
GGCCTGGGTCCGCCAGGCTCCAAAGAAGGGTCTGGAATGGGTTCGCAACC
ATTAGTGCCAGTGGGCTCAGAACTTACTATCCAGACTCCGTGAAGGGCCGC
 TTCACTATCTCCAGAGATGATGCAAAAAGGAGCCTCTTCCTGCAAATGACCA
 GTCTGAAGTCTGAGGACACGGCCACTTATTACTGTGCAAGACCGATGTCTG
CACACTATGGTTTTAACTACTTTGATTACTGGGGCCAAGGAGTCATGGTCAC
 AGTCTCCTCAgctagaccaagggcccatcggtcttccccctggcgccctgctccaggagcacctccg
 agagcacagccgccctgggctgctggtcaaggactactccccgaaccggtgacggtgctgtggaactcag
 gcgcctgaccagcggcgtgcacacctccccggtgtcctacagtcctcaggactctactccctcagcagcgt
 ggtgaccgtgccctccagcagcttgggcacgaagacctacacctgcaacgtagatcacaagcccagcaac
 accaaggtggacaagagagttgagtccaaatatggtcccccattgccaccatgccagcacctgagttcctg
 gggggaccatcagttcttctgttccccccaaaacccaaggacactctcatgatctcccggaacctgaggtca
 cgtgcgtggtggtggacgtgagccaggaagacccccagggtccagttcaactggtacgtggtgagcgtggag
 gtgcataatgccaagacaaagccgcgggaggagcagttcaacagcacgtaccgtgtggtcagcgtcctcac
 cgtcctgcaccaggactggctgaacggcaaggagtacaagtgaagggtctccaacaaaggcctcccgctct
 ccatcgagaaaaccatctccaaagccaaagggcagccccgagagccacaggtgtacacctgcccccatc
 ccaggaggagatgaccaagaaccagggtcagcctgacctgctggtcaaaggcttctaccccagcgacatcg
 ccgtggagtgggagagcaatgggcagccggagaaactacaagaccacgcctcccgctgctggactccg
 acggctccttcttctctacagcaggctaaccgtggacaagagcaggtggcaggaggggaatgtcttctcatg
 ctccgtgatgcatgaggctctgcacaaccactacacacagaagagcctctccctgtctccgggtaaatga

VL-CLKAPPA - DNA

GACATCCAGATGACACAGTCTCCAGCTTCCCTGTCTGCATCTCTGGGAGAA
 ACTGTCACCATCGAATGTCTGAACAAGTGAGGACATTTACAATGGTTTAGCAT
 GGTATCAGCAGAAGCCAGGGAAATCTCCTCAGCTCCTGGTCTATAGTGCAA
ATAGCTTACATATTGGGGTCCCATCACGGTTCAGTGGCAGTGGATCTGGTAC
 ACAGTATTCTCTCAAGATAAACAGCCTGCAATTTGAAGATGTCGCAAGTTATT
TCTGTCAACAGTATTACGATTATCCGCTCGCGTTCGGTTCCTGGGACCAAGCT
 GGAGATCAAACGGacggtggctgcaccatctgtcttcatcttcccgccatctgatgagcagttgaaatct
 ggaactgcctctgttgtgtgctgctgaataacttctatcccagagaggccaaagtacagtggaagggtgataa
 cgccctccaatcgggtaactcccaggagagtgctcacagagcaggacagcaaggacagcacctacagcctc
 agcagcacctgacgctgagcaaagcagactacgagaaacacaaagtctacgcctgcgaagtcacccatc
 agggcctgagctcgcccgtcacaaagagcttcaacaggggagagtgtag

VH-FCG4M (S228P) - Protein

AVQLVESGGGLVQPGGSLKLSCAVSGFTLSDYYMAWVRQAPKKGLEWVATISASGLRITYYPDSVKG
 RFTISRDDAKRSLFLQMTSLKSEDATYYCARPMSAHYGFNYFDYWGQGMVTVSSastkgpsvfpla
 pcsrstsestaalgclvkdyfpepvtvswngaltsgvhtfpavllqssglyslssvvtvpssslgtktytcnvdhkpsntkvdk
 rveskygppcppepflggpsvflfpkpkdltmisrtpcvvvdvsqedpevqfnwyvdgvevhnaktkpree
 qfnstyrsvsltlvhlqdwlngkeykckvsnkglpssiectiskakgqprepvytlppsqeemtknqvsltlvkgfyps
 diavewesngqpennykttpvldsdgsfflysrltvdksrwqegnvfscsvmhealhnhytqkslsispk*

VL-CLKAPPA - Protein

DIQMTQSPASLSASLGETVTIECRTSEDIYNGLAWYQQKPGKSPQLLVYSANSL
HIGVPSRFSGSGSGTQYSLKINSIQFEDVASYFCQQYYDYPLAFSGGTKLEIKR
 tvaapsvfifppsideqlksgtasvvcllnnfybreakvqwkvdnalqsgnsqesvteqdsdstyslsstltlska
 dyekhkvyacevthqglsspvtksfnrgec*

Figure 11

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Fc sequences**Human IgG1** (Uniprot P01857):

ASTKGPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPA
AVLQSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKKVEPKSCDKTHTC
PPCPAPPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYV
DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPI
EKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQ
PENNYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQ
KSLSLSPGK

Human IgG2 (Uniprot P01859):

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPA
VLQSSGLYSLSSVVTVPSSNFGTQTYTCNVDHKPSNTKVDKTVKCCVECPPC
PAPPVAGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVQFNWYVDGVE
VHNAKTKPREEQFNSTFRVVSVLTVVHQDWLNGKEYKCKVSNKGLPAPIEKTIS
KTKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDISVEWESNGQPENN
YKTTTPMLDSGDSFFLYSKLTVDKSRWQQGNVFCFSVMHEALHNHYTQKSLS
LSPGK

Human IgG4 (Uniprot P01861):

ASTKGPSVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPA
VLQSSGLYSLSSVVTVPSSSLGTQTYTCNVDHKPSNTKVDKRVERESKYGPCCPSCP
APEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVDSQEDPEVQFNWYVDGVE
VHNAKTKPREEQFNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTIS
KAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSGDSFFLYSRLTVDKSRWQEGNVFCFSVMHEALHNHYTQKSLS
LSLGK

Rat IgG1 (Uniprot P20759) used in N13B2

AETTAPSVYPLAPGTALKSNSMVTLGCLVKGYFPEPVTVTWNSGALSSGVHTFPA
AVLQSGLYTLTSSVTVPSSTWPSQTVTCNVAHPASSTKVDKKIVPRNCGGDCKP
CICTGSEVSSVFIFPPKPKDVLITITLTPKVTCTVVDISQDDPEVHFSWFVDDVEV
HTAQTRPPEEQFNSTFRSVSELPILHQDWLNGRTRCKVTSAAFPSPIEKTISKP
EGRTQVPHVYTMSPKTEEMTQNEVSITCMVKGFPDIYVEWQMNGQPQE
NYKNTPTMDTDGSYFLYSLNVKKEKWQQGNTFTCSVLHEGLHNHHTKSL
SHSPGK

Figure 12

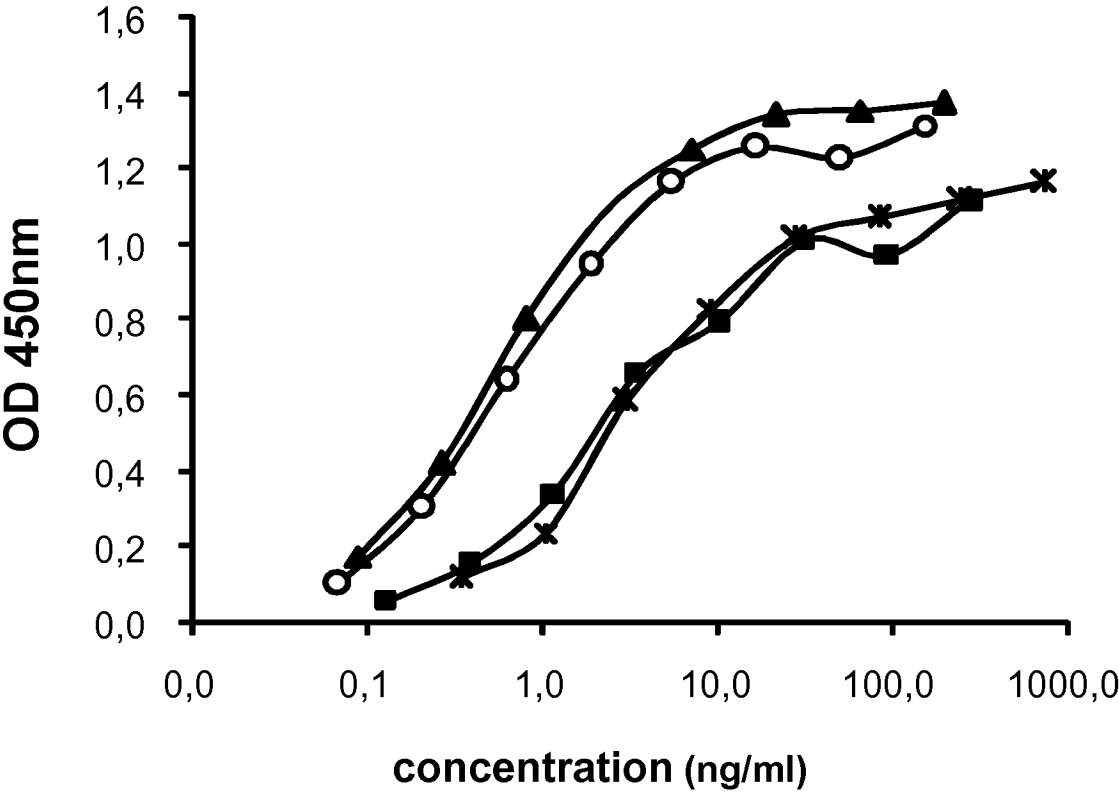


Figure 13

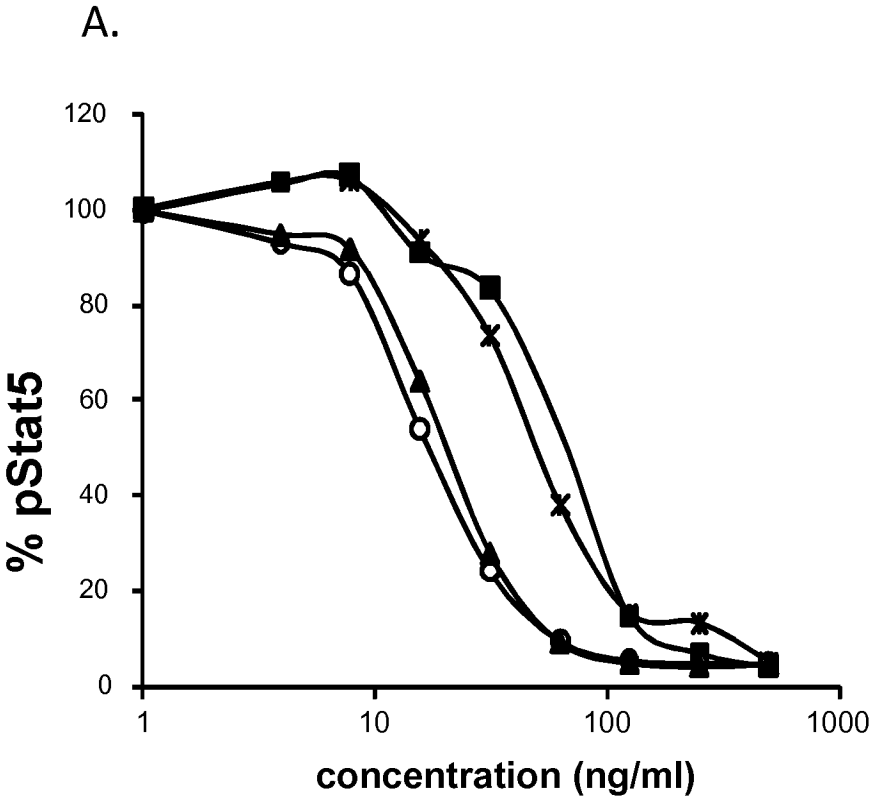
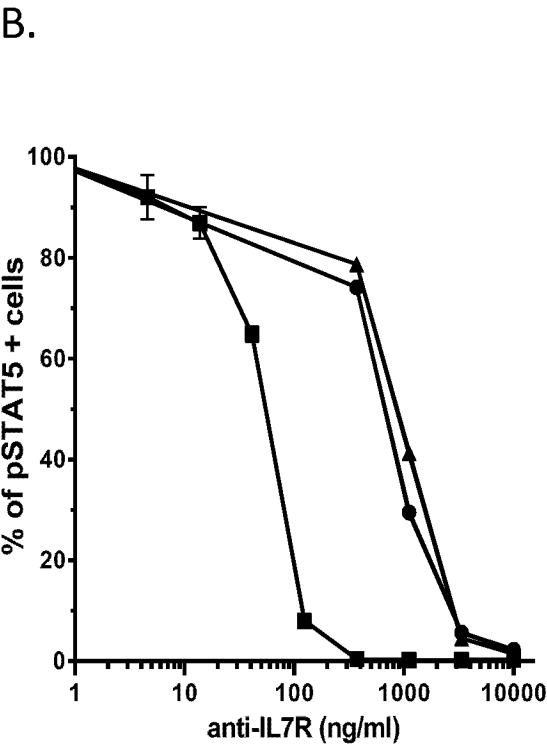


Figure 14

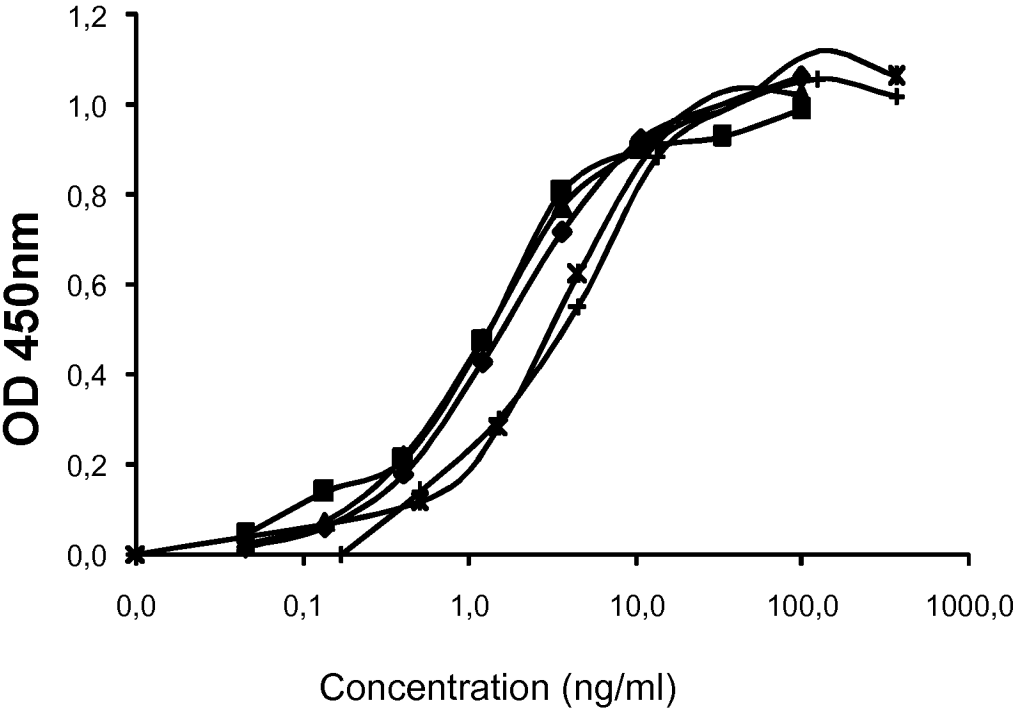
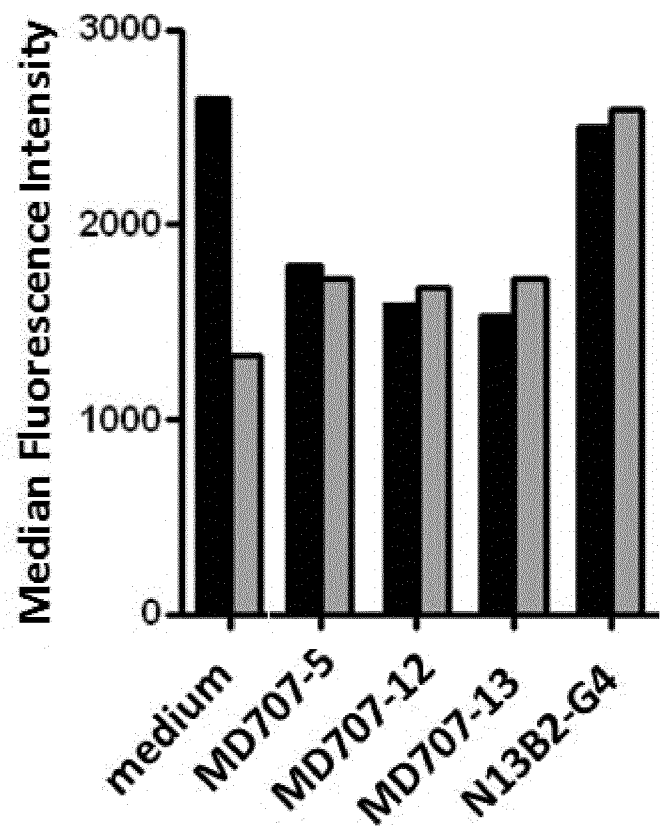


Figure 15

A.



B.

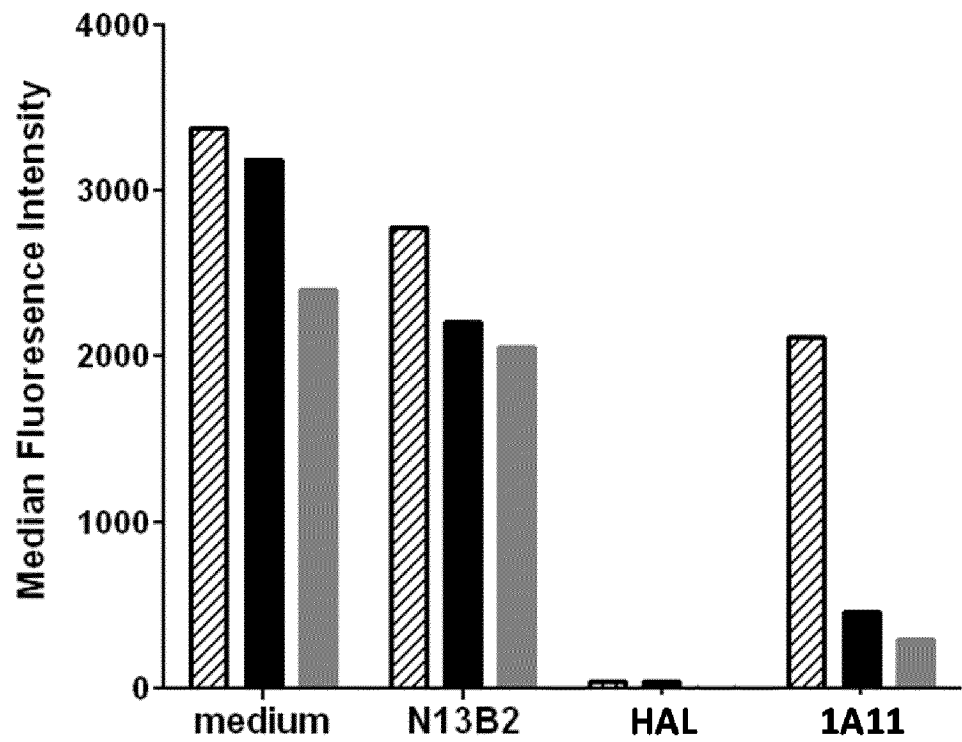
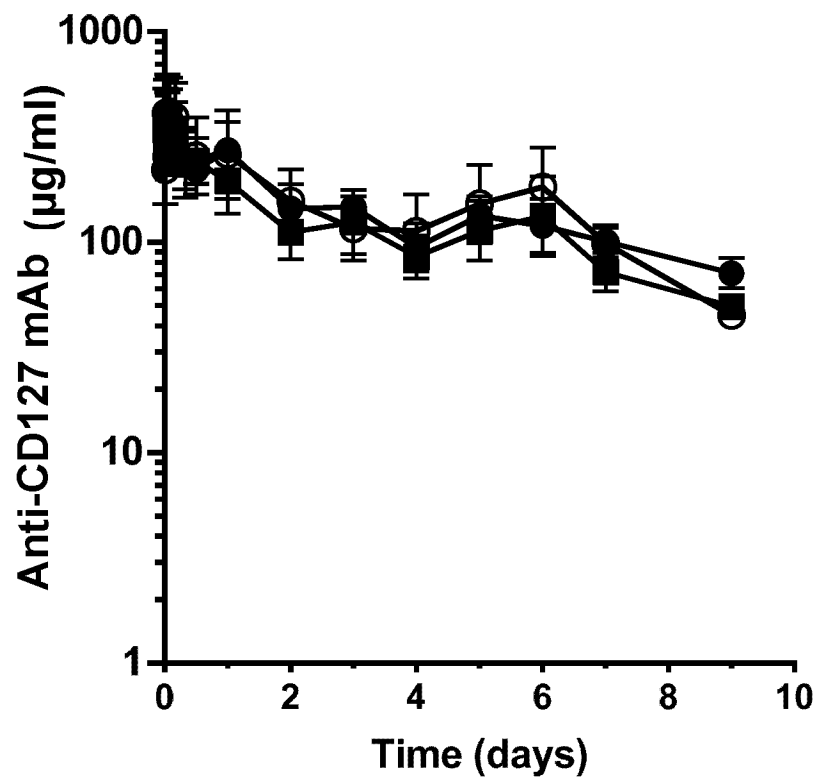


FIGURE 16

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A.



B.

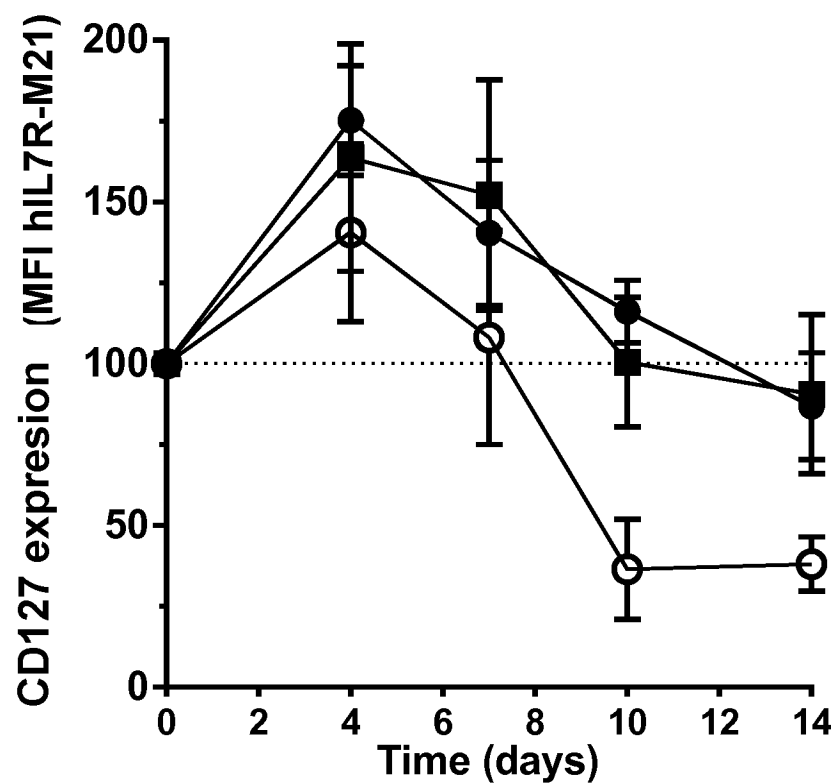
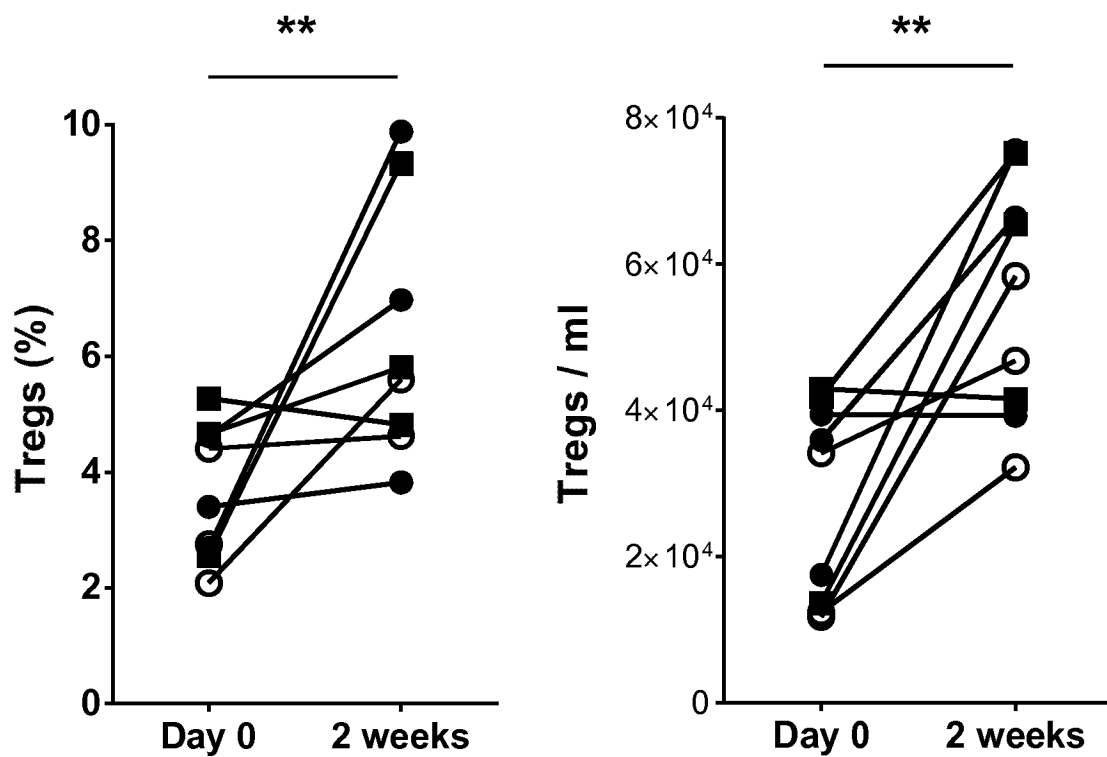


Figure 17

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Peripheral blood



Lymph nodes

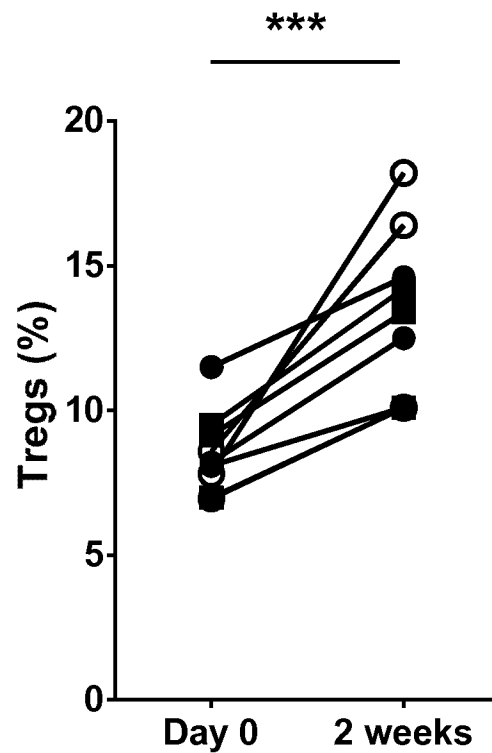


Figure 18

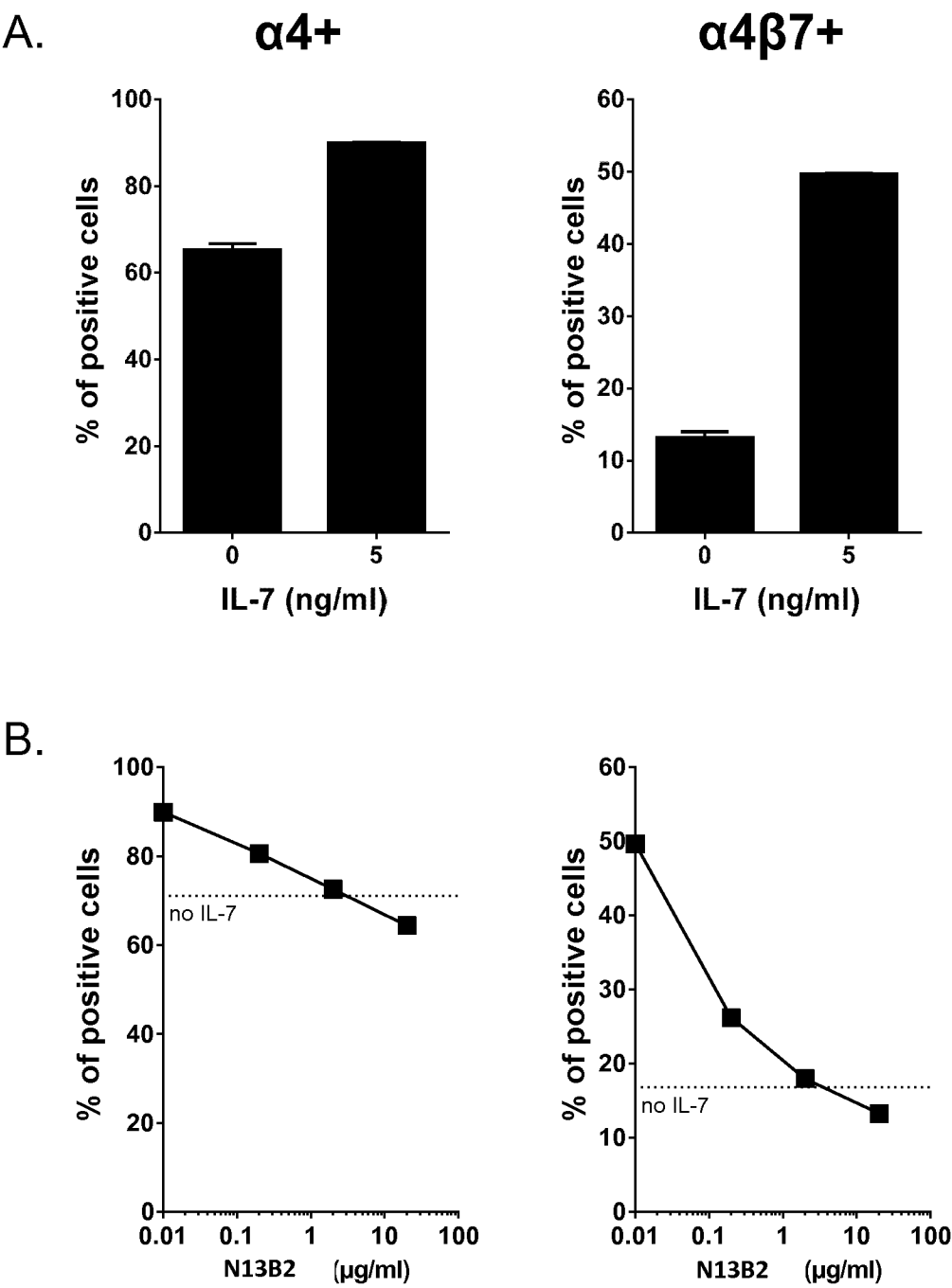


Figure 19

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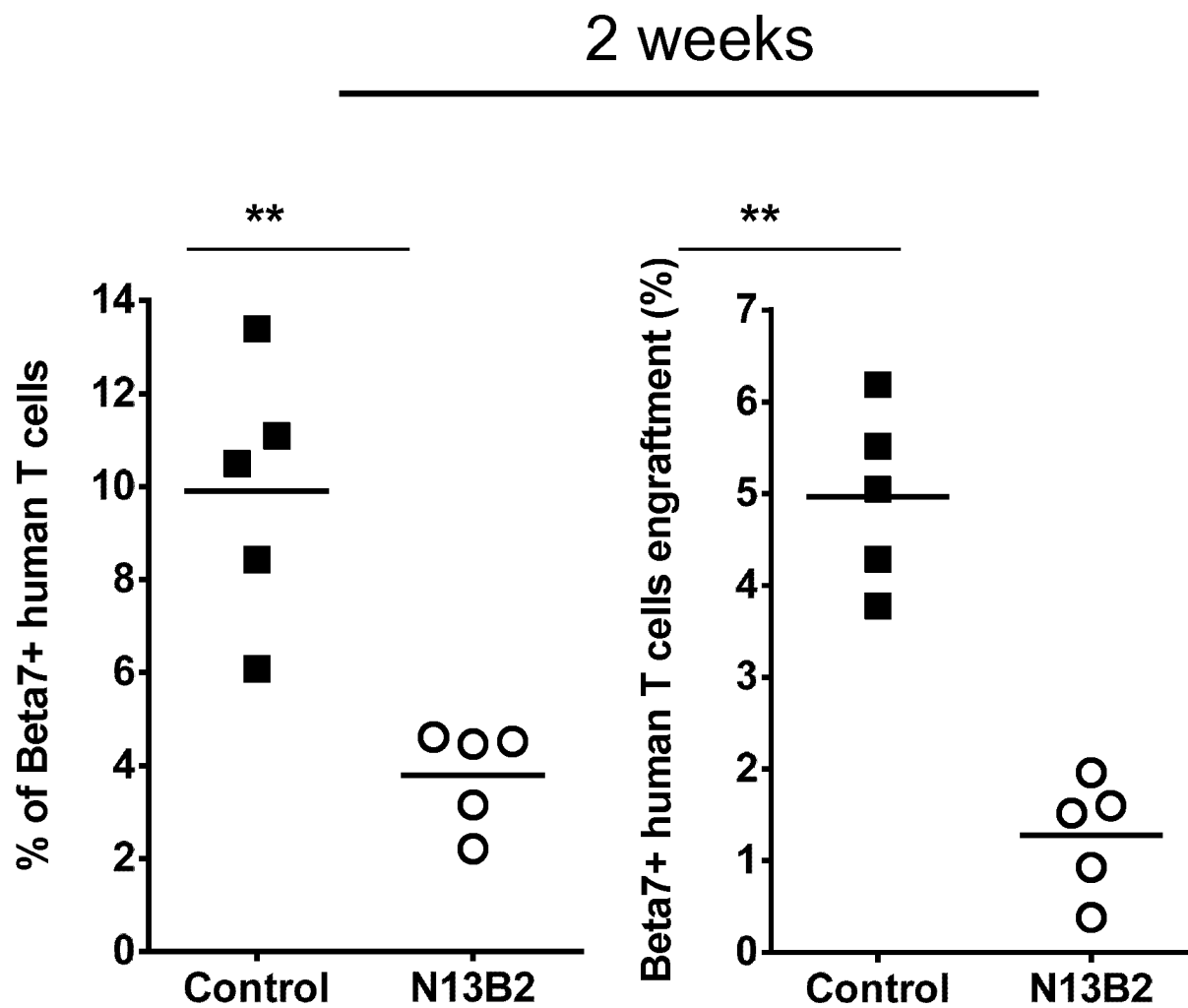


Figure 20

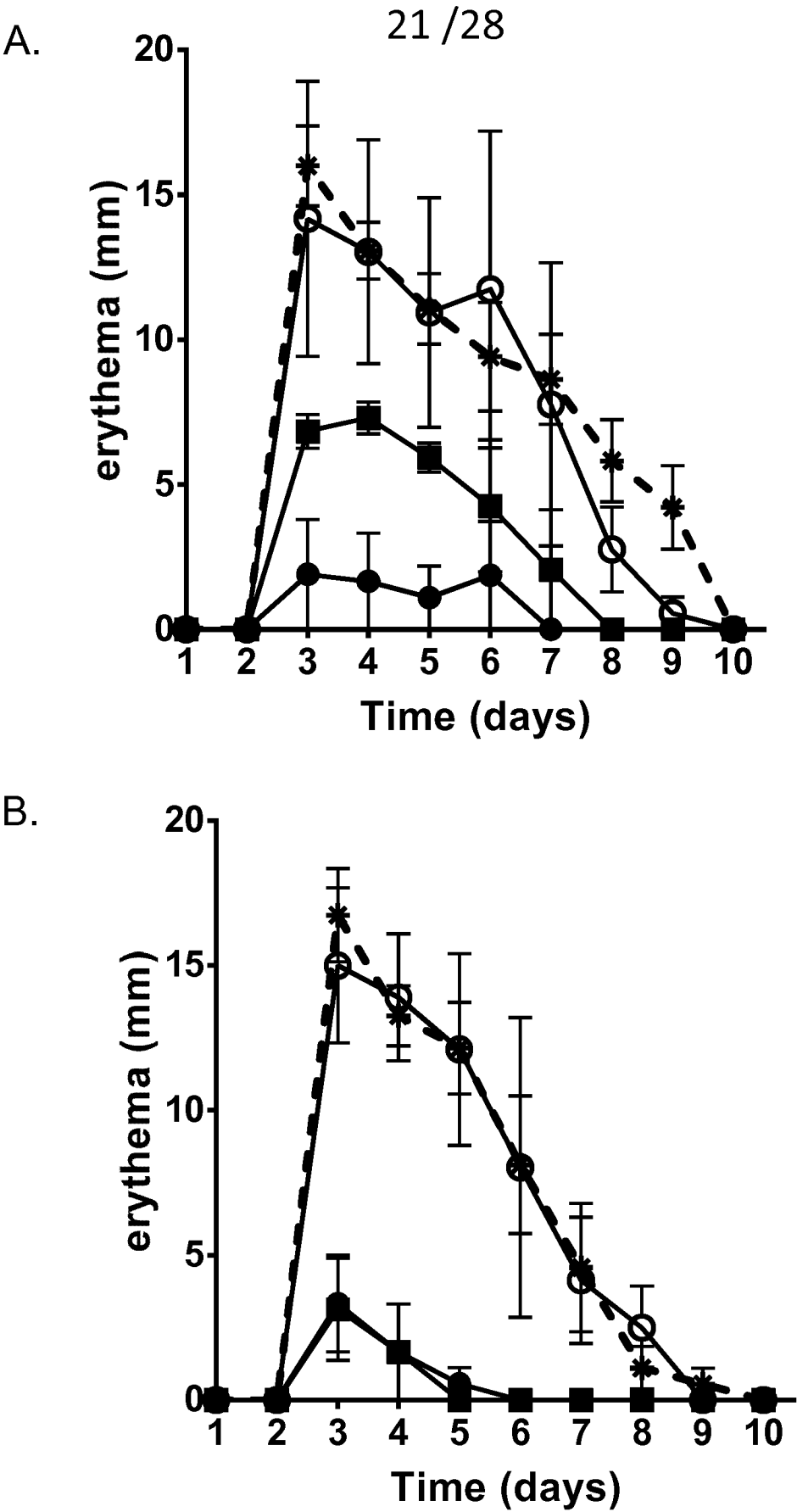


Figure 21

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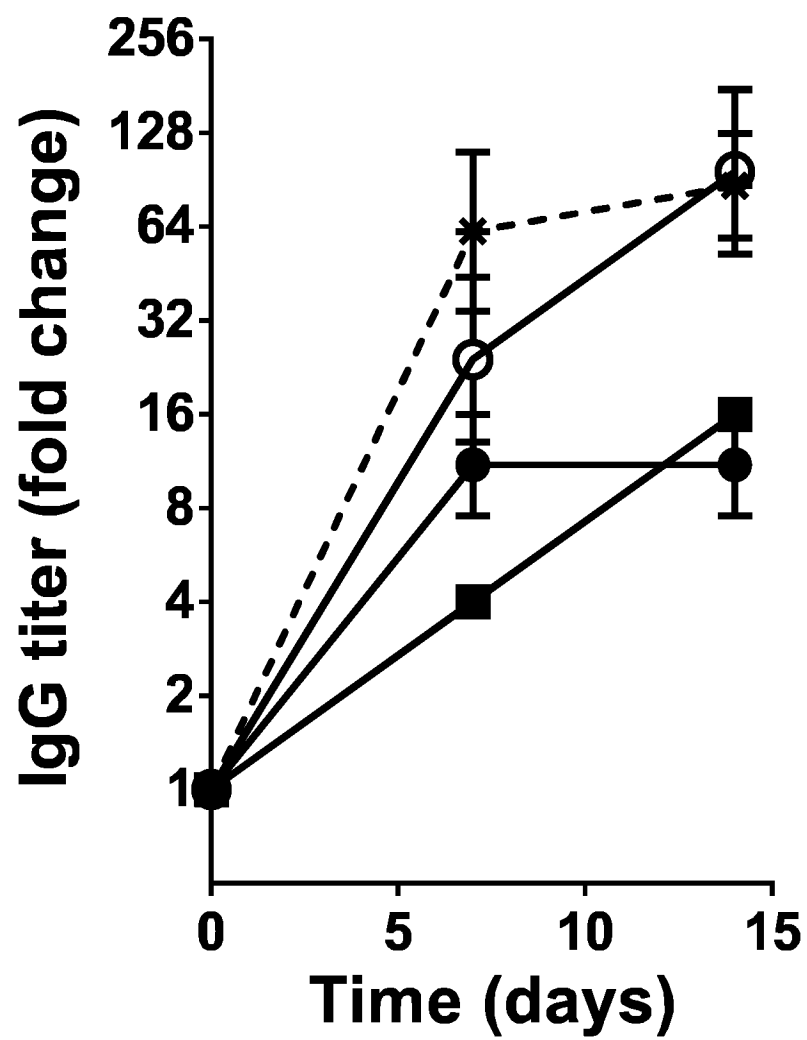


Figure 22

23 /28

QVQLVESGGGLVKPGGSLRLSCAVSGFTLSDY~~Y~~MAWIRQAPG
KGLEWVSTISASGLRTYYPD~~S~~VKGRFTISRDN~~A~~AKNSLYLQMNS
LRAEDTAVYYCARP~~L~~SAHYGFNYFDYW~~G~~QGTLTVSSASTKGP
SVFPLAPCSRSTSESTAALGCLVKDYFPEPVTVSWNSGALTSGV
HTFPAVLQSSGLYSLSSVVTVPSSSLGTKTYTCNVDHKPSNTKV
DKRVESKYGPPCPPCPAPEFLGGPSVFLFPPKPKDTLMISRTPE
VTCVVVDVSQEDPEVQFNWYVDGVEVHNAKTKPREEQFNST
YRVVSVLTVLHQDWLNGKEYKCKVSNKGLPSSIEKTISKAKGQ
PREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAVEWESNG
QPENNYKTTTPVLDSDGSFFLYSRLTVDKSRWQEGNVFSCSV
MHEALHNHYTQKSLSLSPGK*

Figure 23

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EIVMTQSPATLSVSPGERATLSCRTSEDIYQGLAWYQQKPGQA
PRLLIYSANTLHIGIPARFSGSGSGTEFTLTISSLQSEDFAVYYCQ
QYYDYPLAFGGGTKVEIKTVAAPSVFIFPPSDEQLKSGTASVVC
LLNNFYPREAKVQWKVDNALQSGNSQESVTEQDSKDSTYSLS
STLTLSKADYEKHKVYACEVTHQGLSSPVTKSFNRGEC*

Figure 24

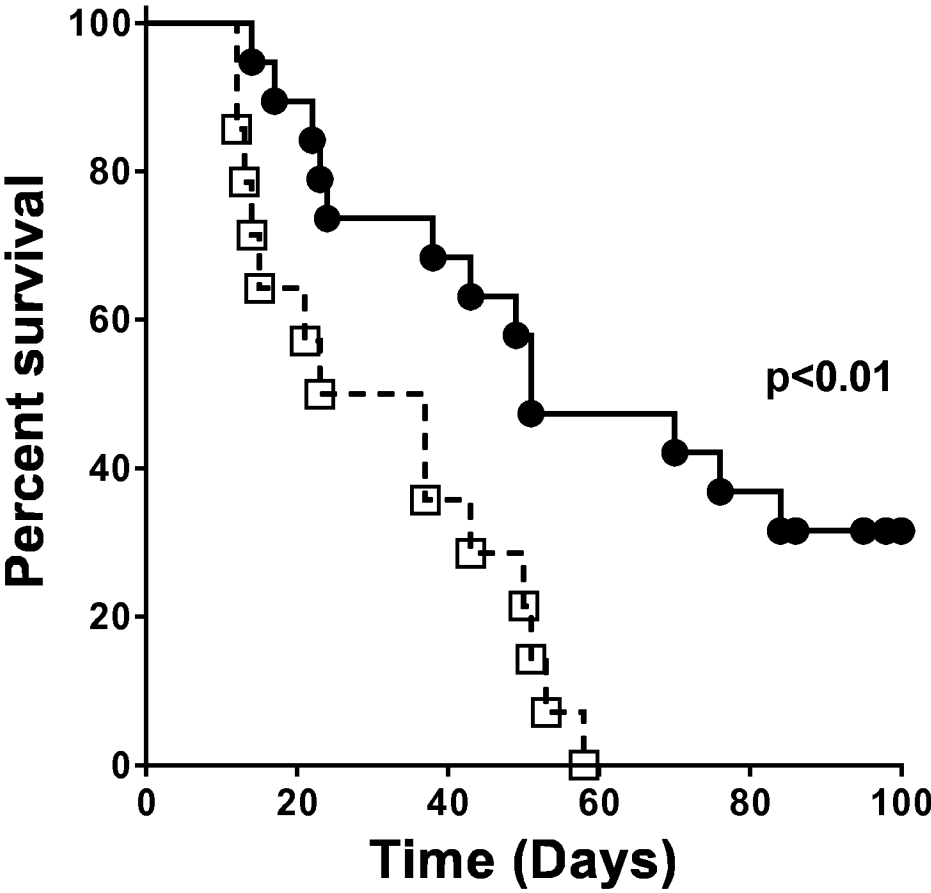


Figure 25

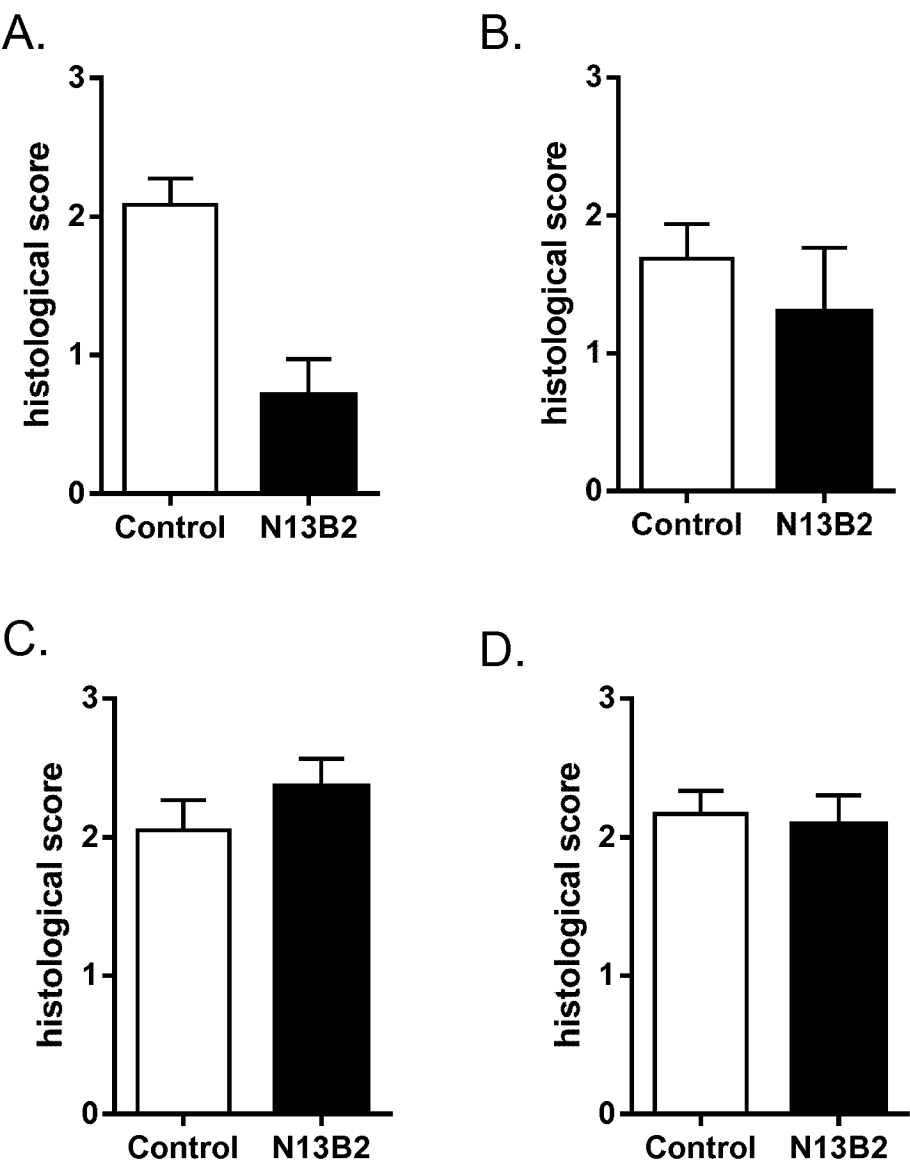


Figure 26

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~~MTILGTTFCMVFSLLQVVSGESGYAQNGDLEDAELDDYSFS~~
CYSQLEVNGSQHSLTCAFEDPDVNTTNLEFEICGALVEVKC
LNFRKLQEIIY**FIETKKF**LLIGKSNICVKVGEKSLTCKKIDL
TTIVKPEAPF**DLSVIY**REGANDFVVTFNTSHLQKKYVKVLM
HDVAYRQEKDENKWTHVNLSSTKLTLQRLQPAAMYEIKV
RSIPDHY**FKGF**WSEWSPSYFRTPEINNSSGEMDPILLTIS
ILSFFSVALLVILACVLWKKRIKPIVWPSLPDHKKTLEHLC
KKPRKNLNVSFNPESFLDCQIHRVDDIQARDEVEGFLQDTF
PQQLEESEKQRLGGDVQSPNCPSADVITPESFGRDSSLTC
LAGNVSACDAPILSSSRSLDCRESGKNGPHVYQDLLLSLGT
TNSTLPPPFSLQSGILTLPVAQGQPILTSLGSNQEEAYVT
MSSFYQNQ

Figure 27

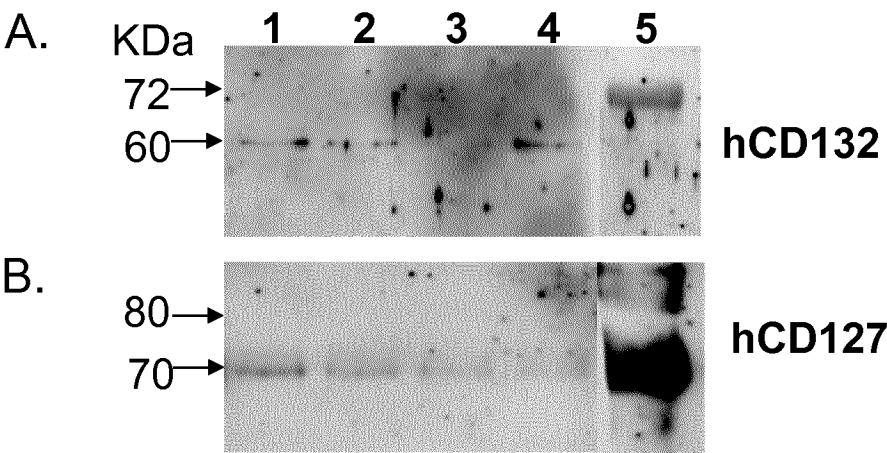


Figure 28