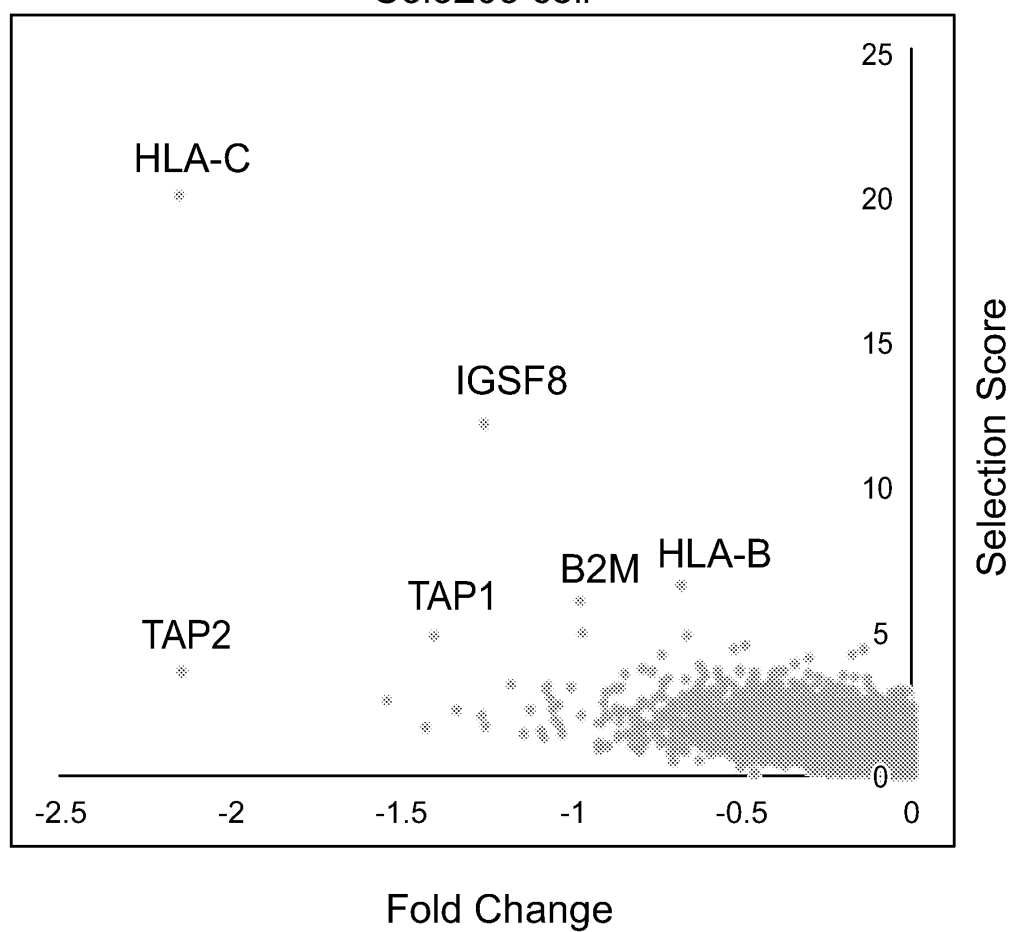


FIG. 1

Genome-wide NK cell and cancer
cell line Co-culture screen

Colo205 cell



SUBSTITUTE SHEET (RULE 26)

FIG. 2A

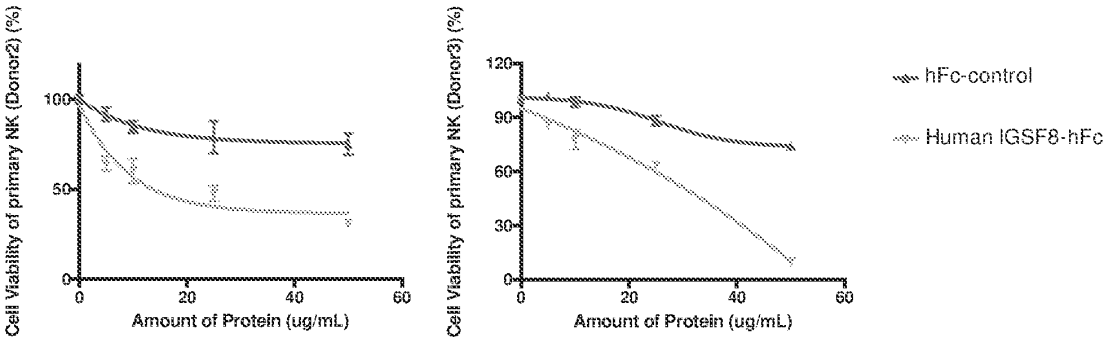


FIG. 2B

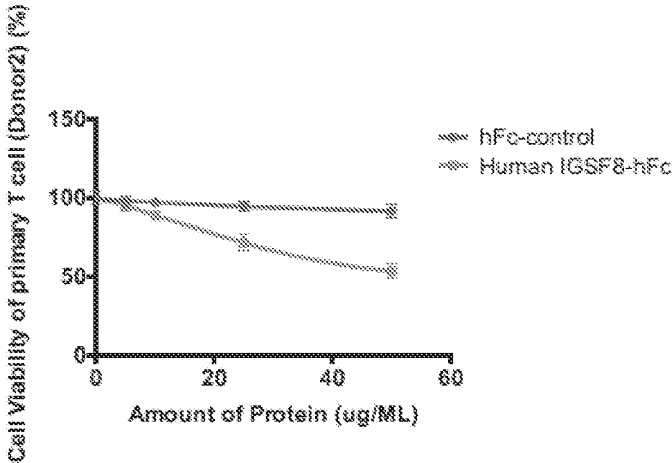


FIG. 2C

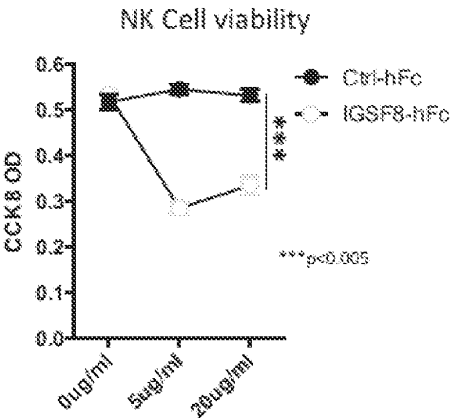


FIG. 2D

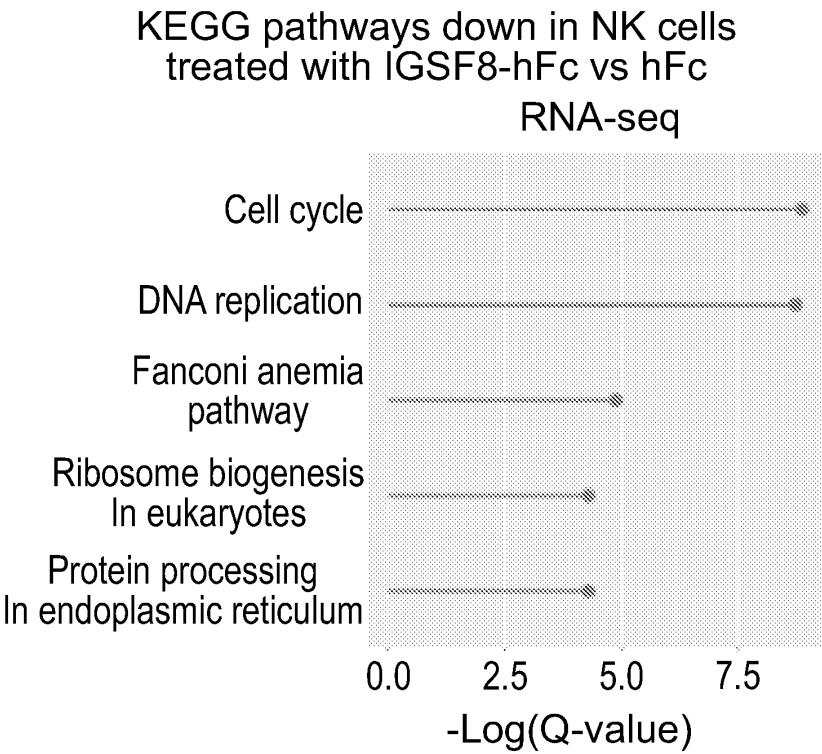


FIG. 2E

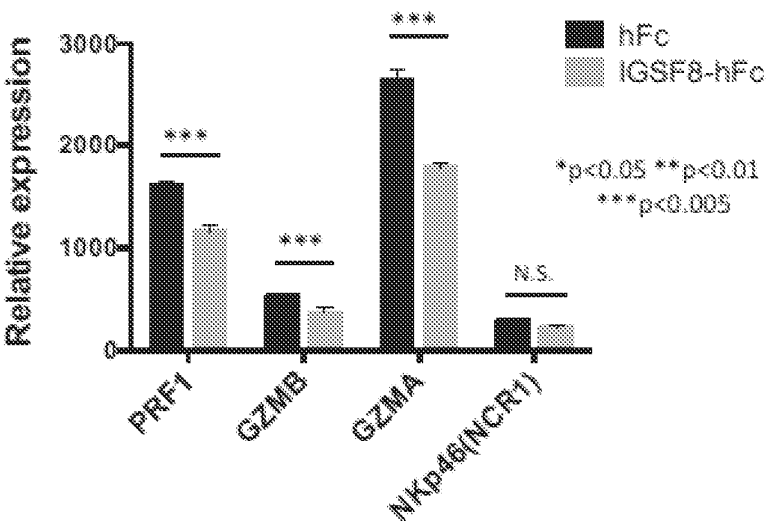


FIG. 2F

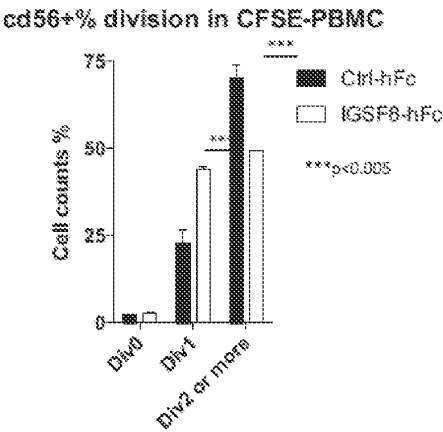


FIG. 2G

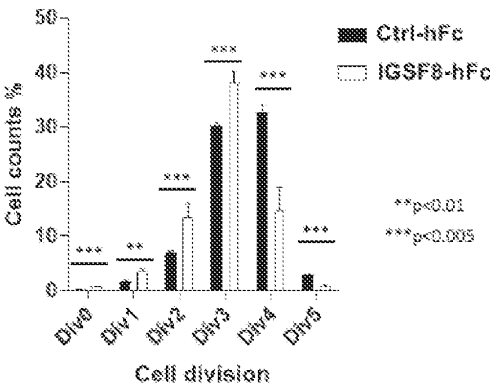


FIG. 2H

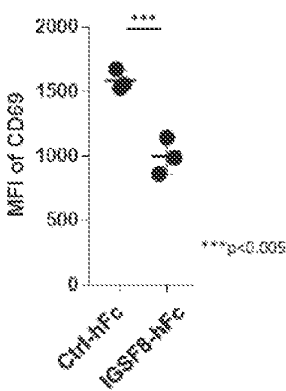


FIG. 3A

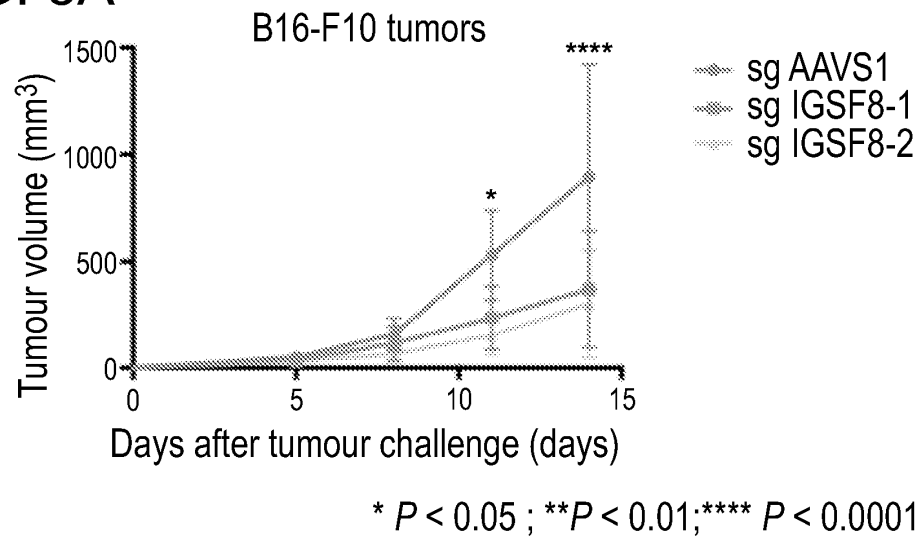


FIG. 3B

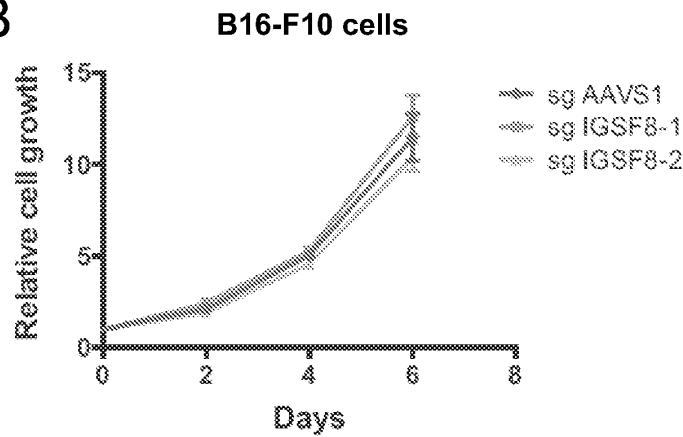


FIG. 4

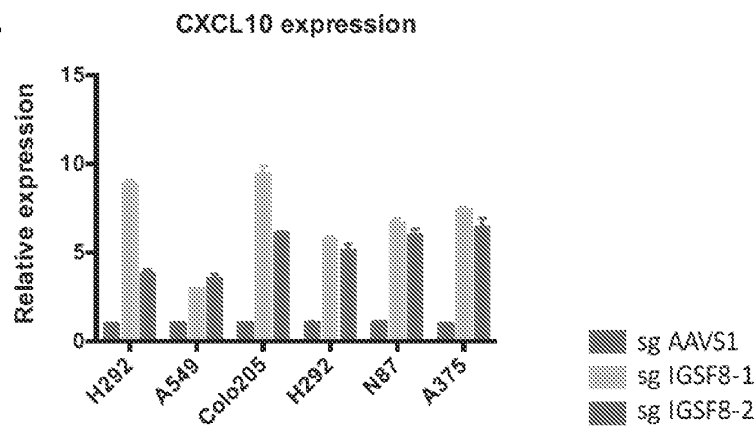


FIG. 5A

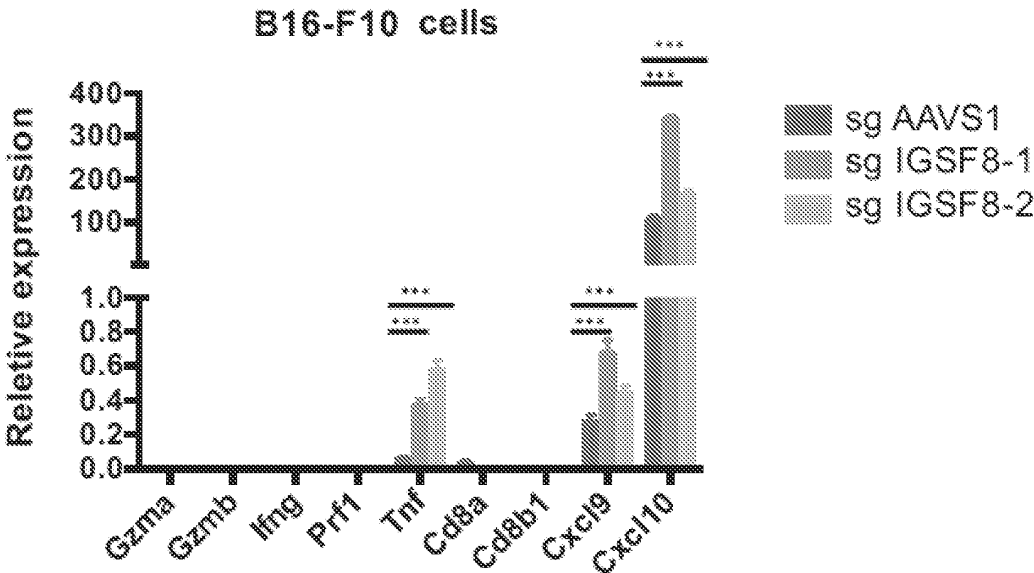


FIG. 5B

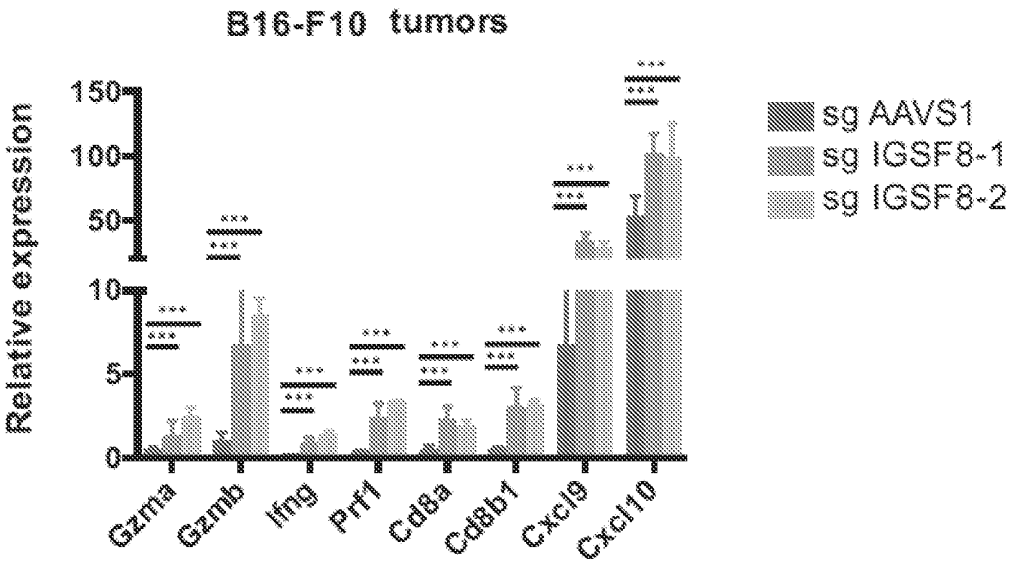


FIG. 5C

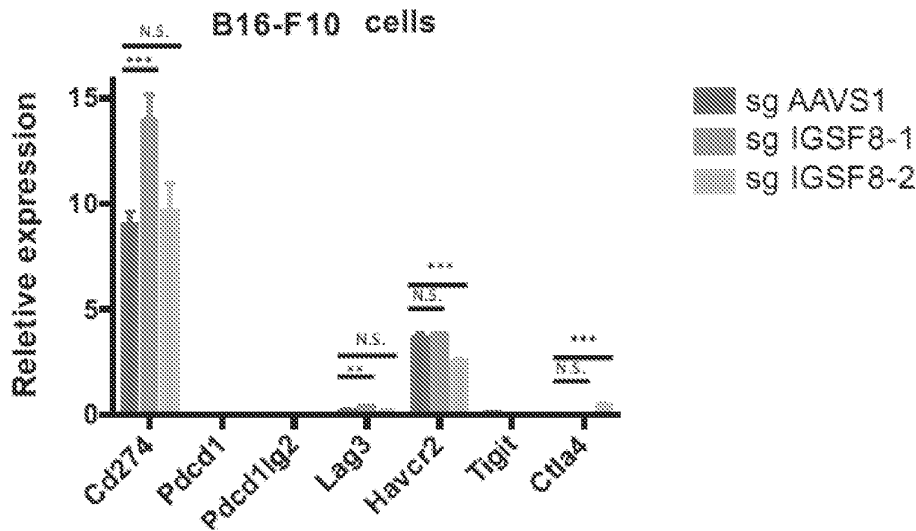


FIG. 5D

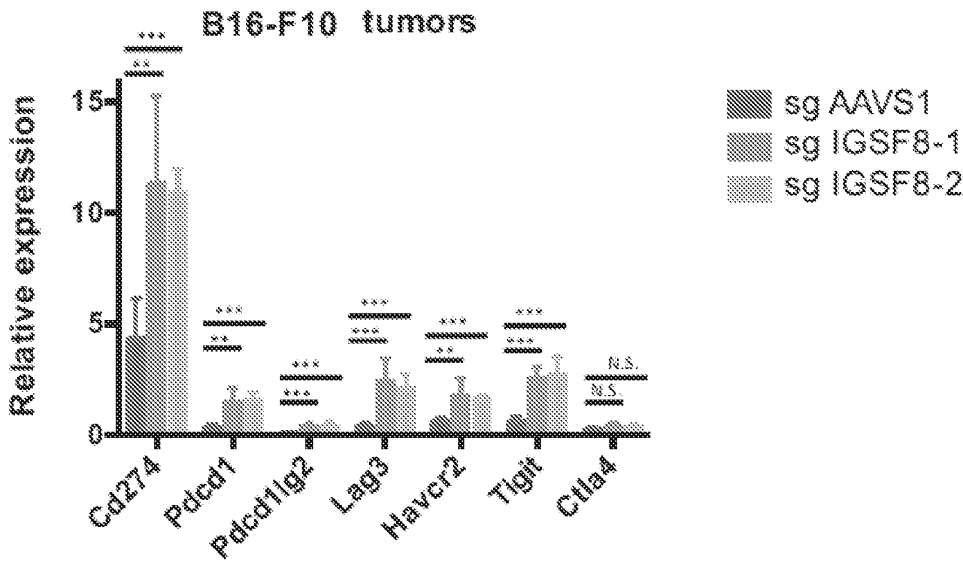
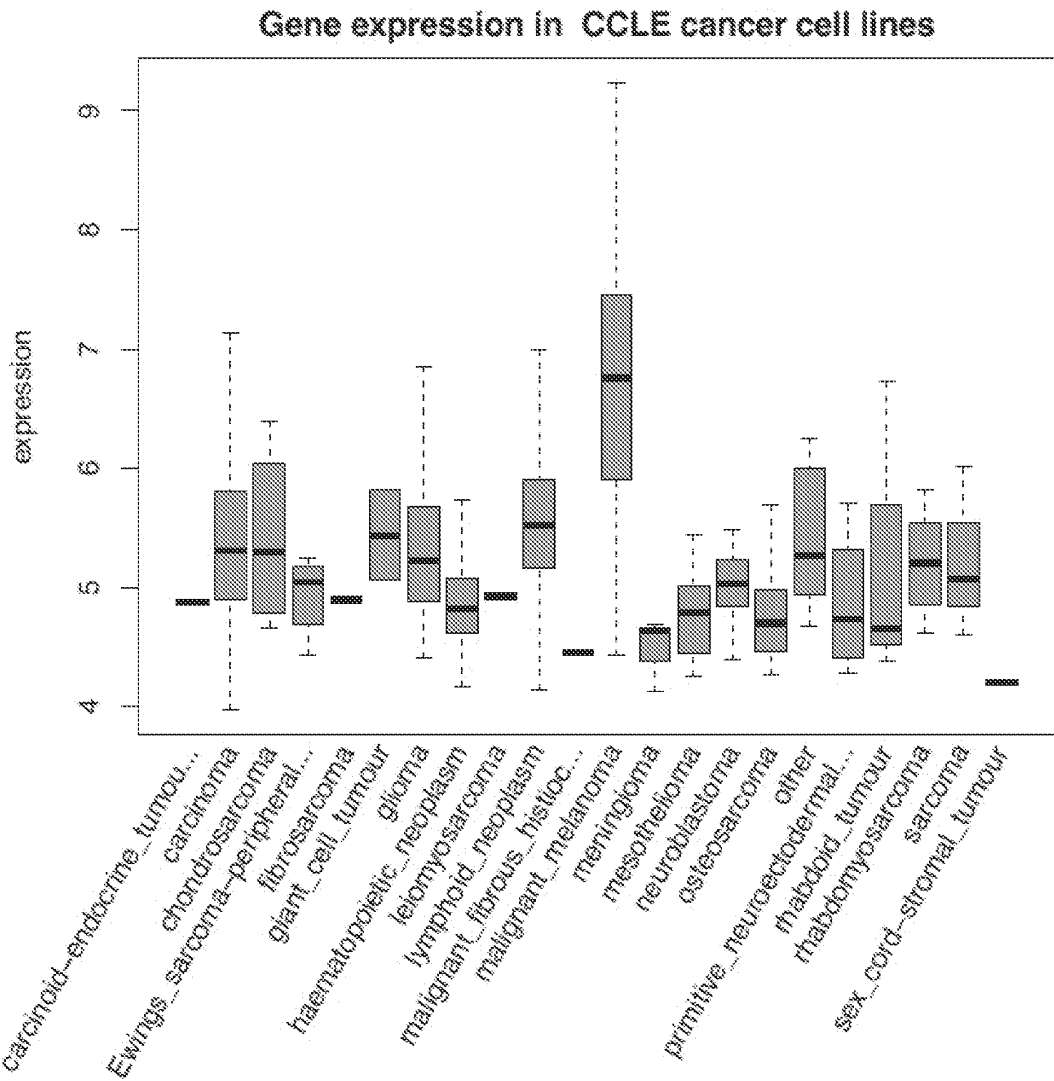


FIG. 6A



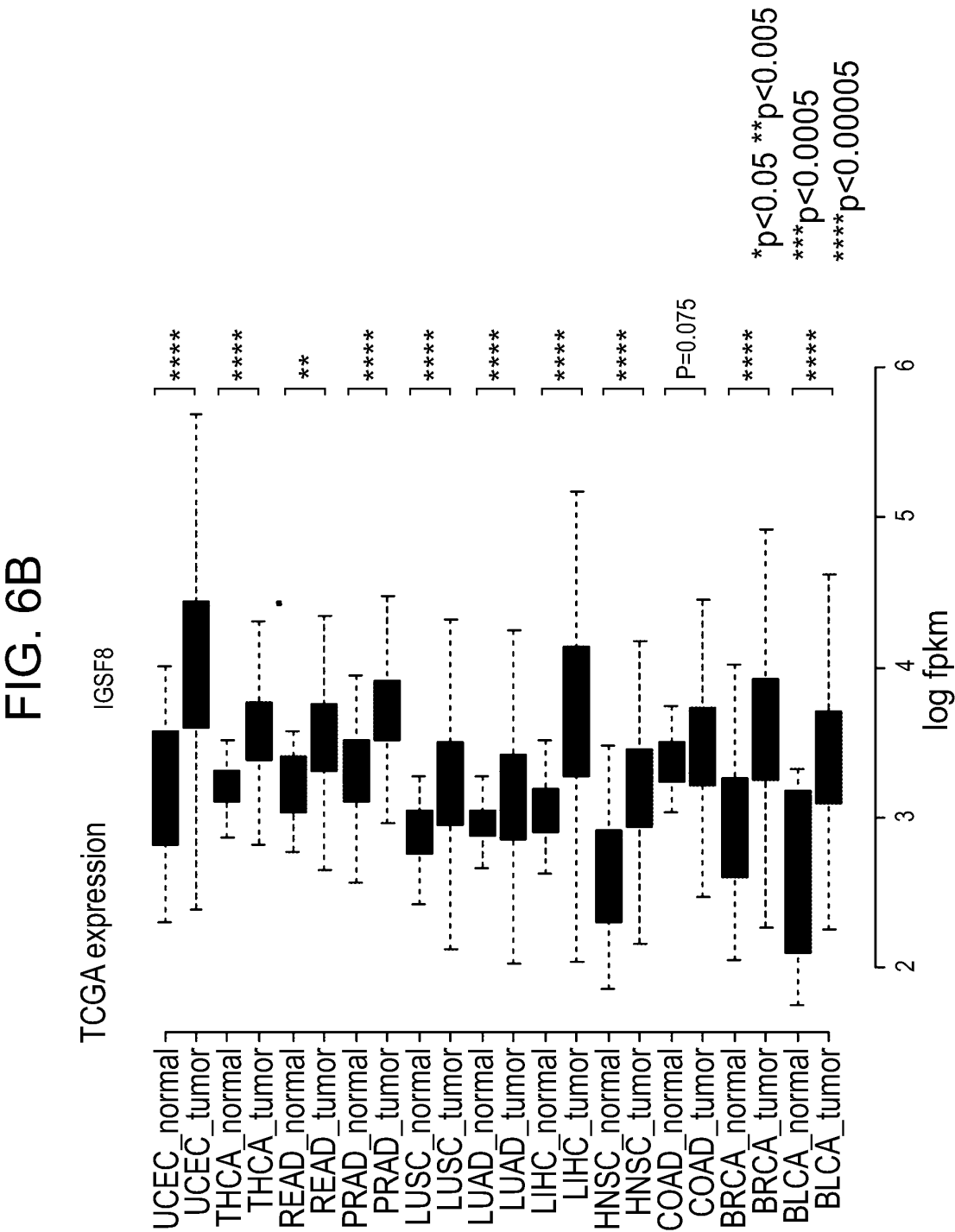


FIG. 6C

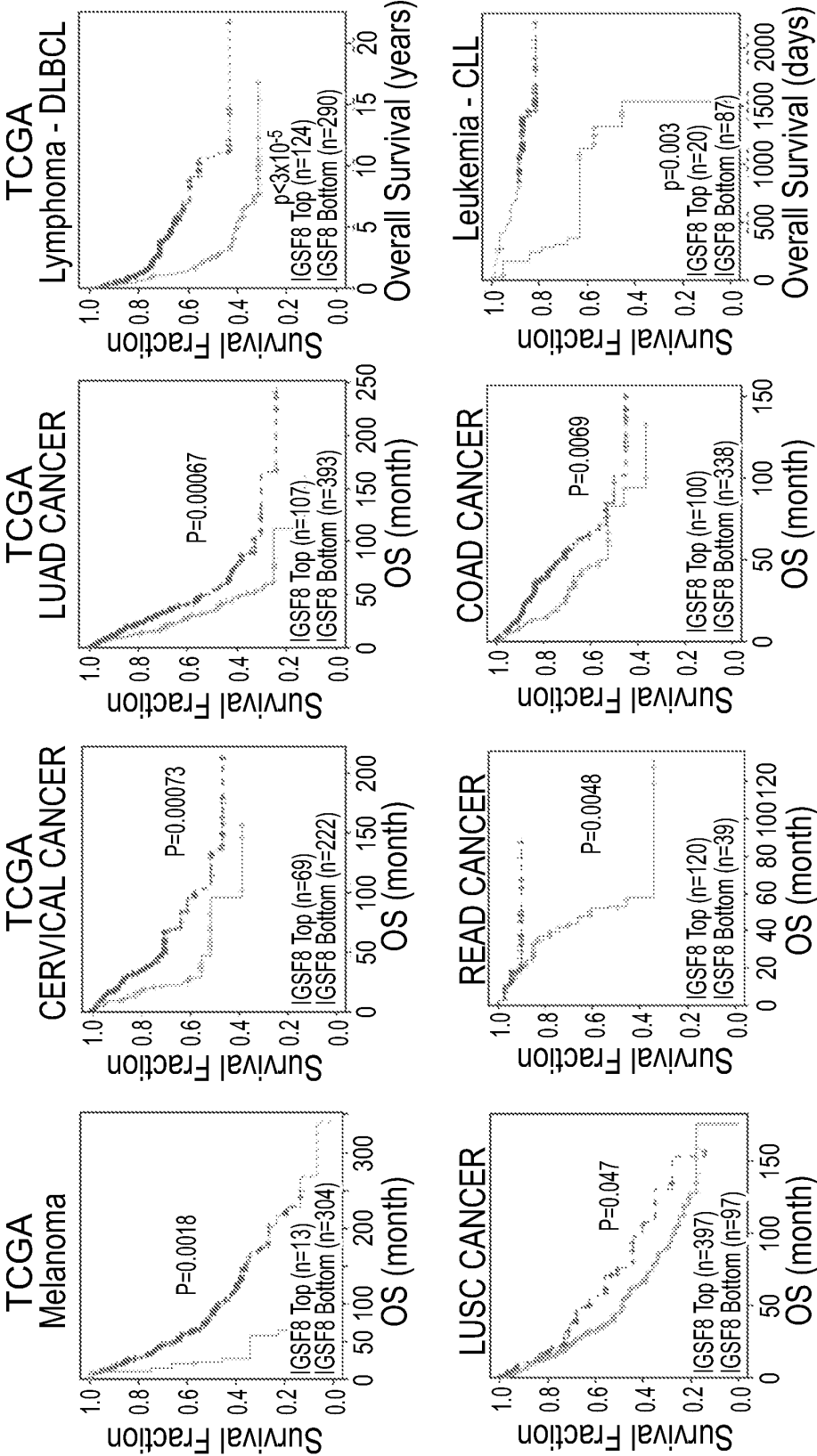


FIG. 7

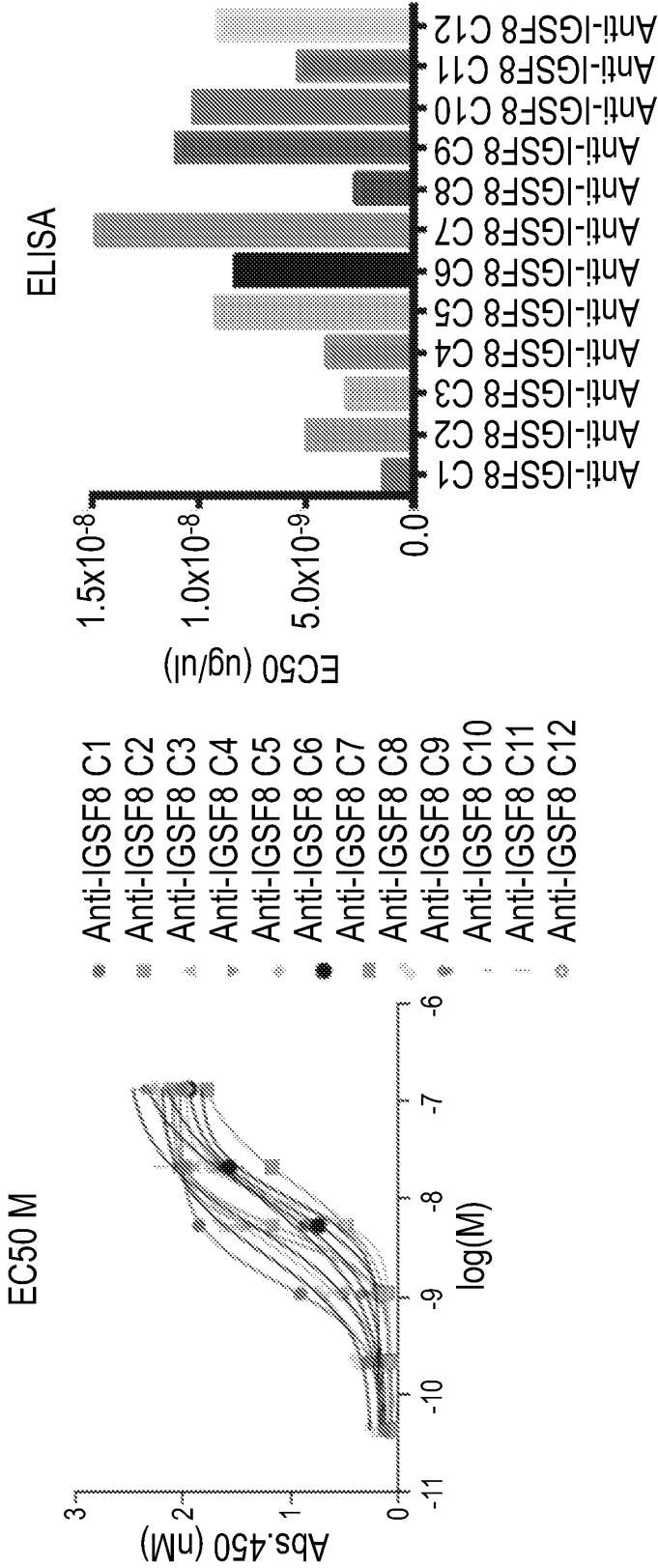
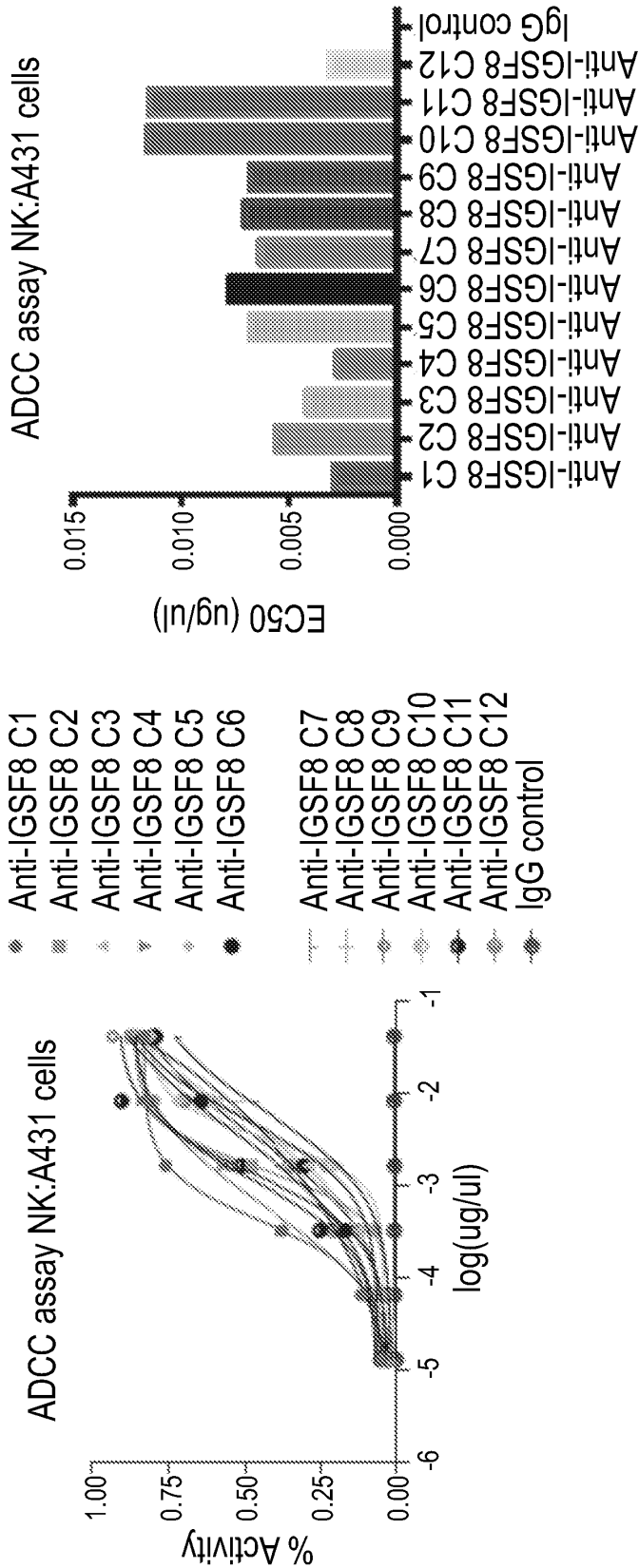


FIG. 8



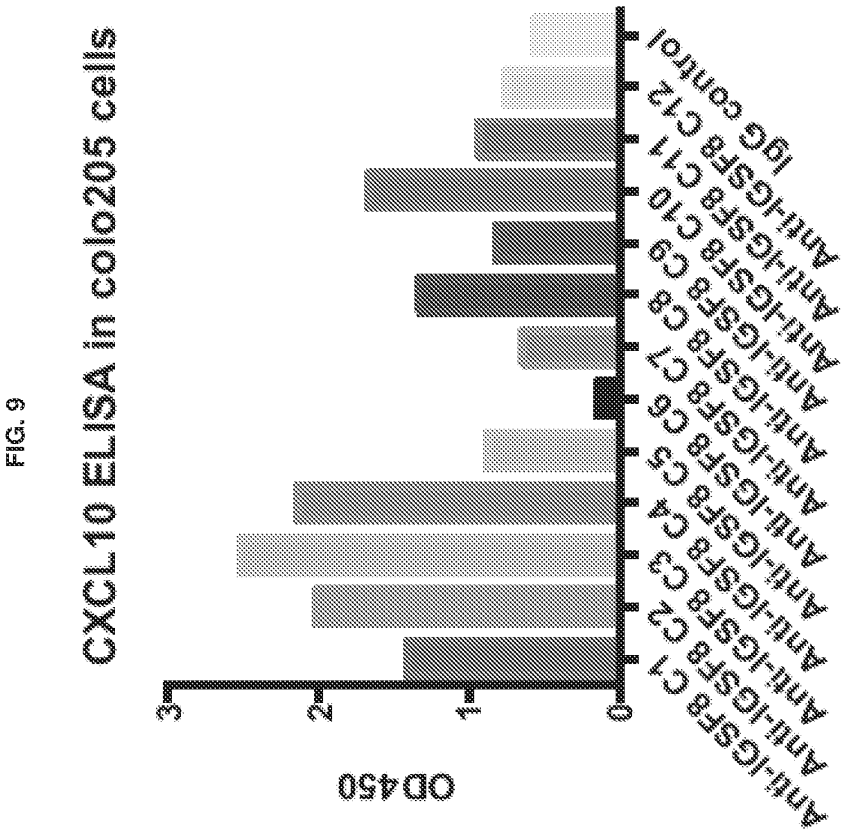


FIG. 10

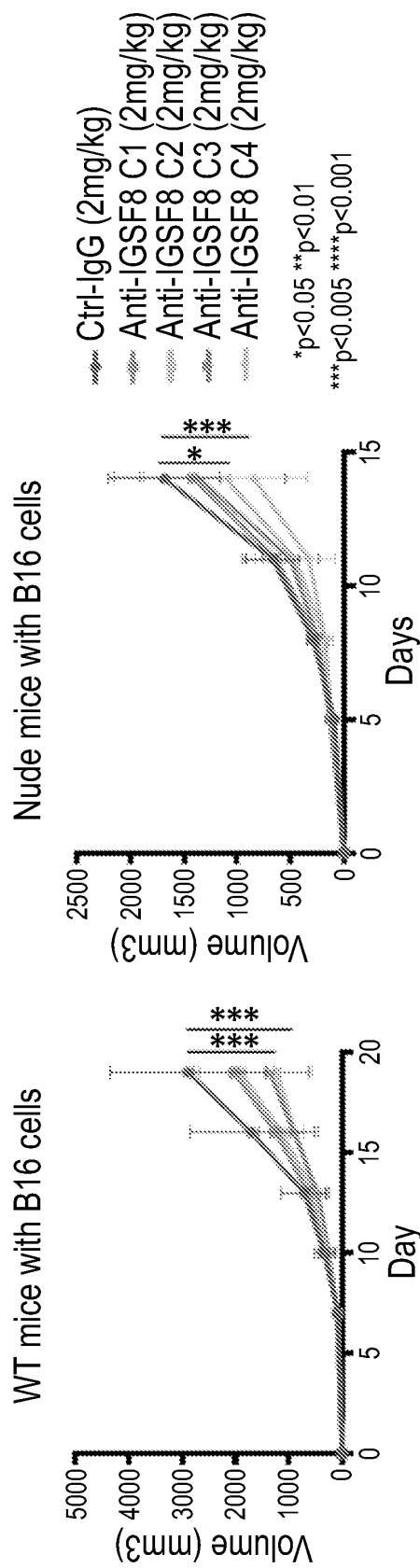


FIG. 11

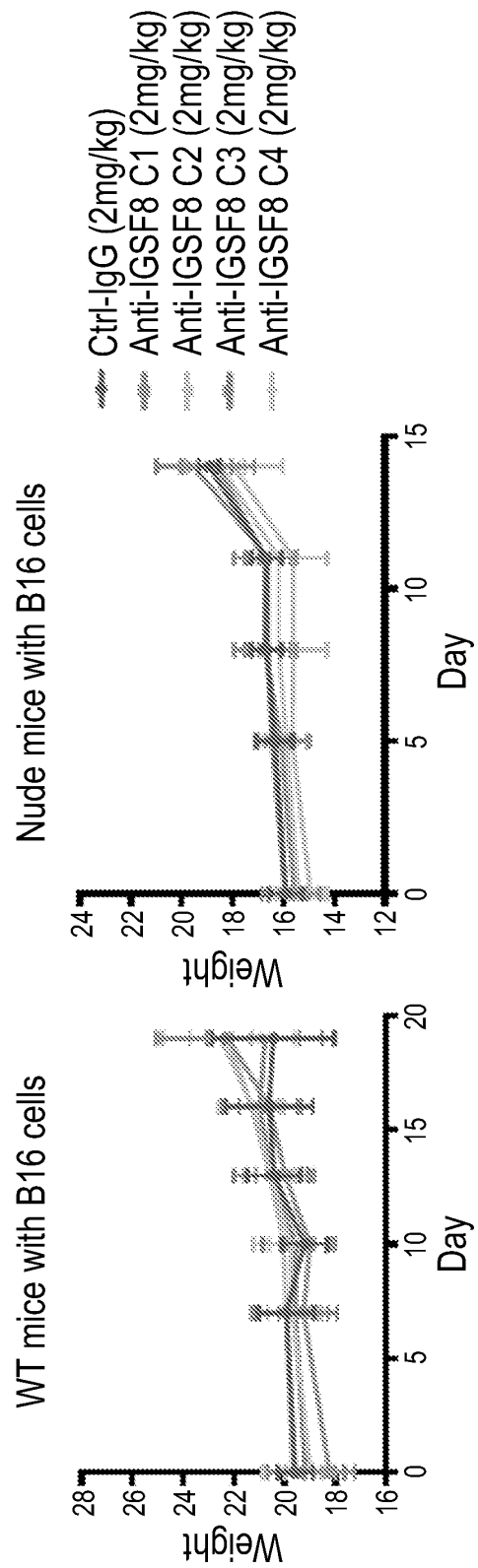


FIG. 12
WT mice with B16 cells

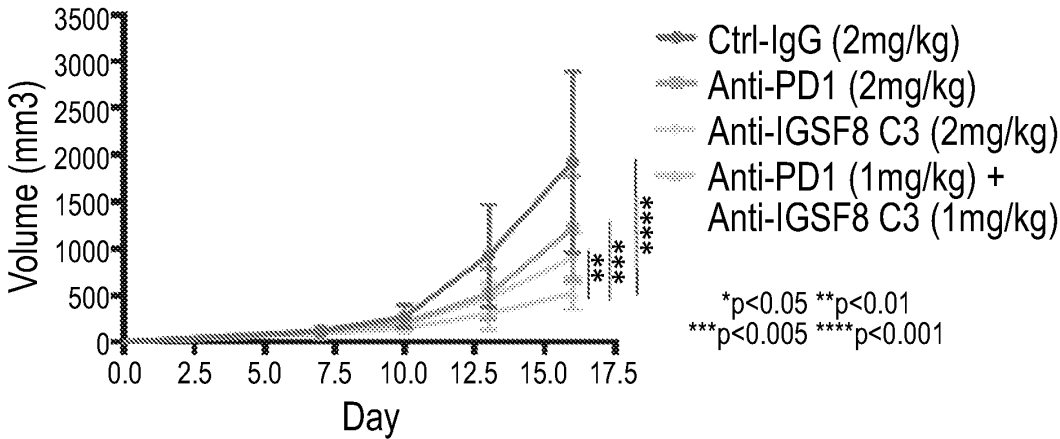


FIG. 13A

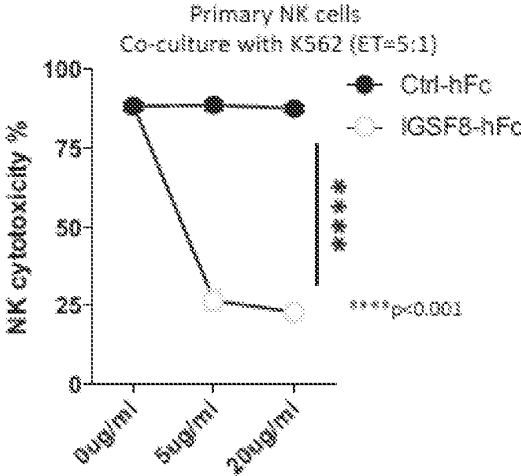


FIG. 13B

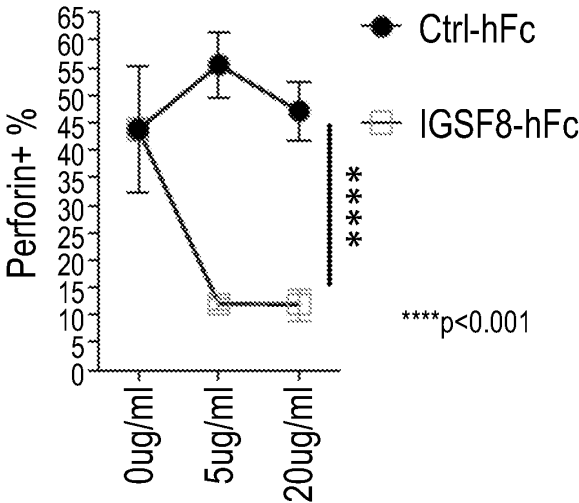


FIG. 14

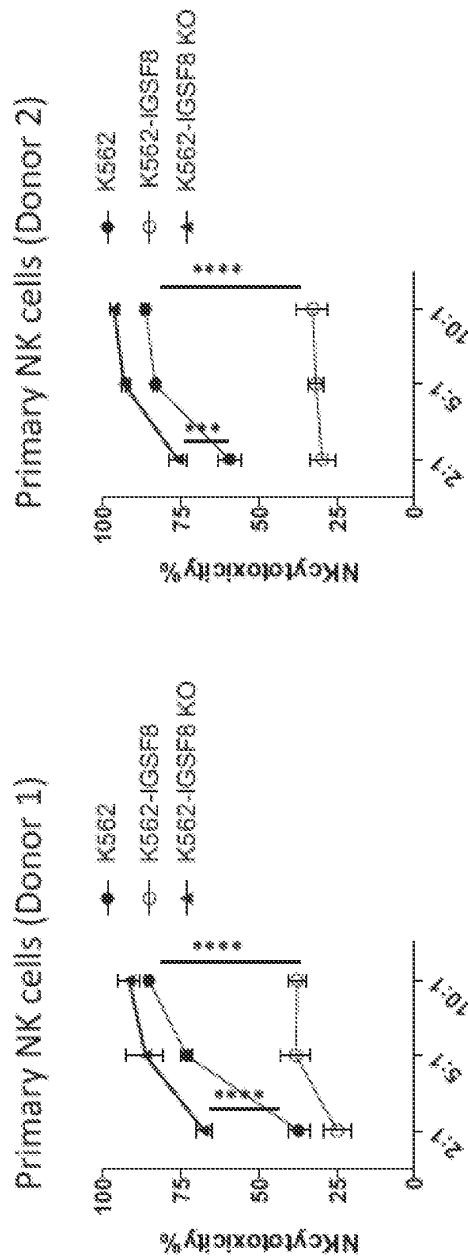


FIG. 15A

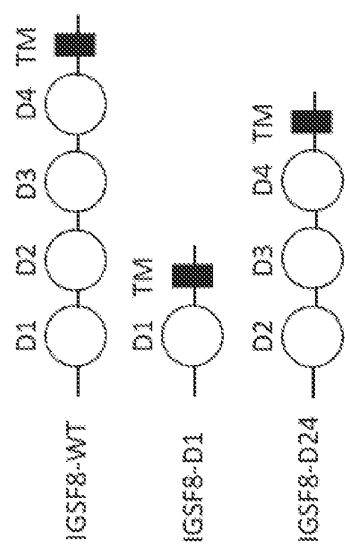


FIG. 15B

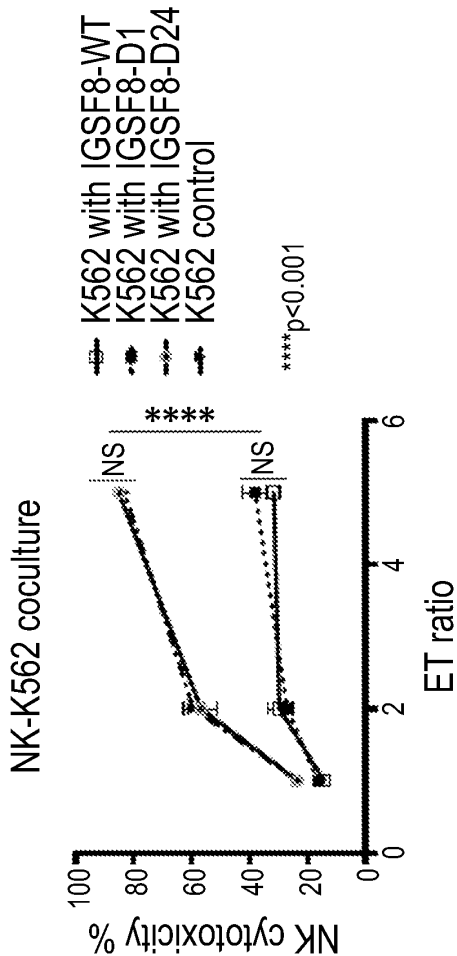


FIG. 16A

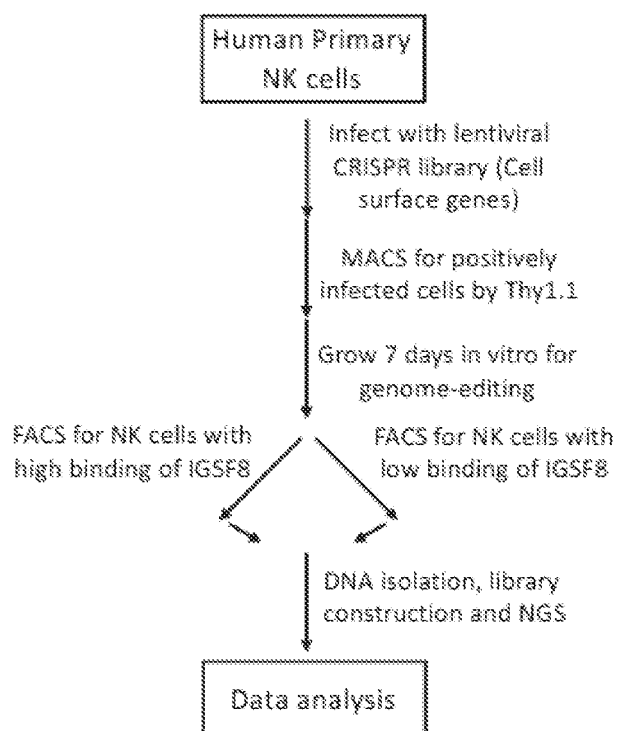


FIG. 16B

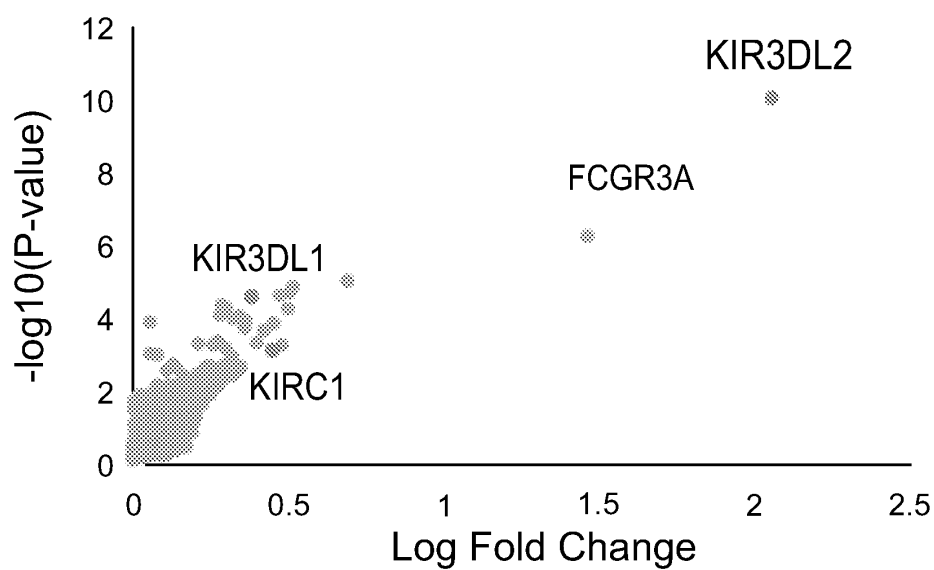


FIG. 17A

Lentiviral vector

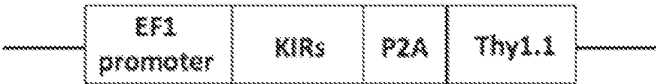


FIG. 17B

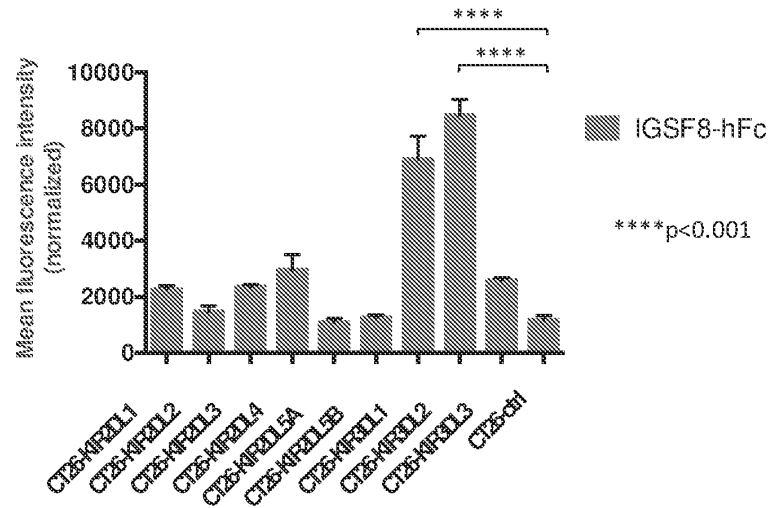


FIG. 17C

Lentiviral vector

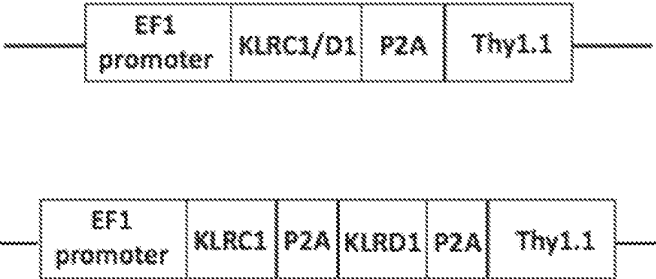


FIG. 17D

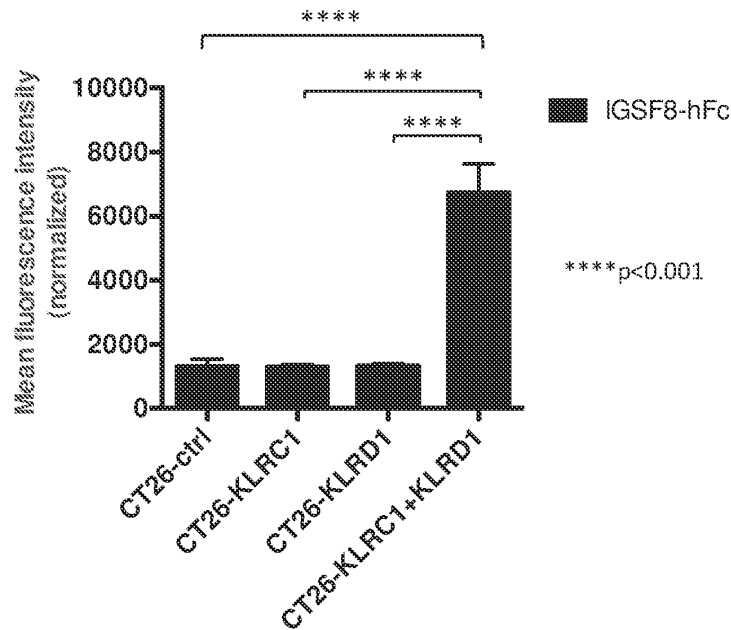


FIG. 17E

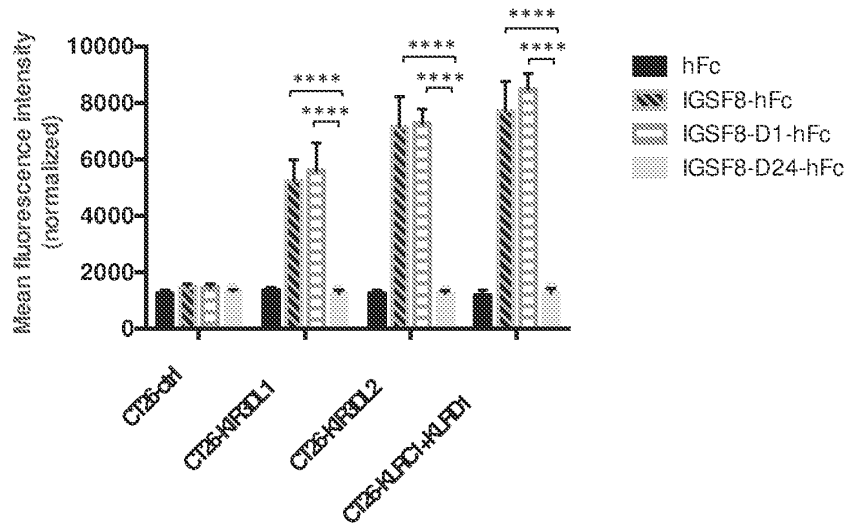


FIG. 18A

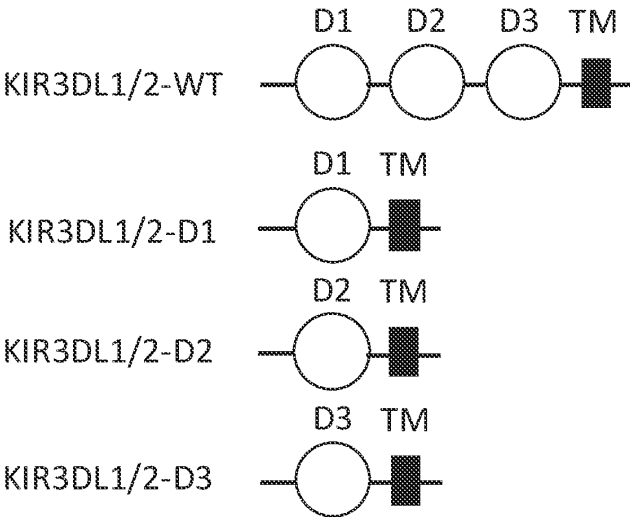
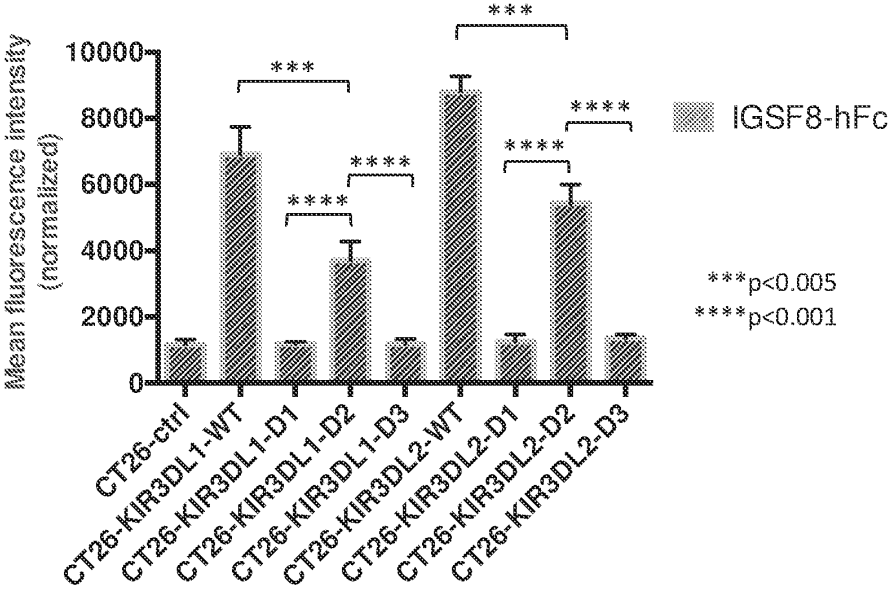


FIG. 18B



KIR3DL3 -----QDKPFLSAWPGTVVSEGGQVLTQCRSRLGFNEFFLSKSDGMPVPELYNRIFRNSFL
 KIR3DL2 LMGGQDKPFLSARPSVTVVPRGGHVALQCHYRRGFNNFMFLYKEDRSHVPIFHGRIFQESFI
 KIR3DL1 HMGGQDKPFLSAWPSAVVPRGGHVTLRCHYRHRFNNFMFLYKEDRIHIPIFHGRIFQESFN
 KIR2DL1 -----

 KIR3DL3 MGPVTPAHAGTYRCCSSHPHSPTGWSAPSNPVVIMVTGVHRKPSLLAHPGPLVKSGETVI
 KIR3DL2 MGPVTPAHAGTYRCGRSRPHSLTGWSAPSNPLVIMVTGNHRKPSLLAHPGPLLKSGETVI
 KIR3DL1 MSPVTTAHAGNYTCRGSHPHSPTGWSAPSNPVVIMVTGNHRKPSLLAHPGPLVKSGSERVI
 KIR2DL1 -----HEGVHRKPSLLAHPGPLVKSEETVI

 * *****! * * *
 D2 domain
 KIR3DL3 LQCWSDVRFERFLLHREGITEDFLRLVGGIHDAGSQVNYSMGPMTPALAGTYRCFGSVTH
 KIR3DL2 LQCWSDVMFEHFFLLHREGISEDPSRLVGGIHDGVSKANFSIGPMMPVLAGTYRCYGSVPH
 KIR3DL1 LQCWSDIMFEHFFLLHKEGISKDPSRLVGGIHDGVSKANFSIGPMMLALAGTYRCYGSVTH
 KIR2DL1 LQCWSDVMFEHFFLLHREGMFNDTLRLIGEHHDGVSKANFSISRNTQDLAGTYRCYGSVTH
 *****; **!*:**:**; 1* ***!* **; *!*:*!*; *****:*** *
 D2 domain
 S165 I171 M186

Crystal Structure of KIR3DL1

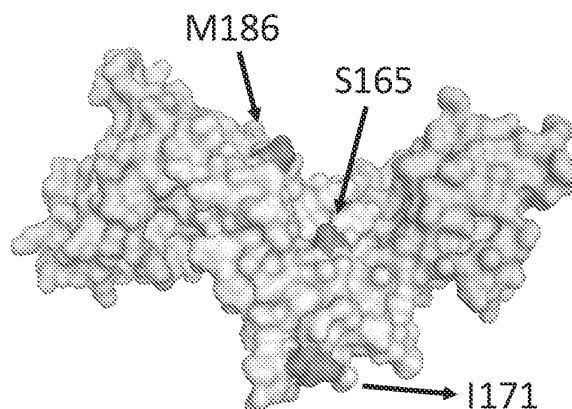


FIG. 20

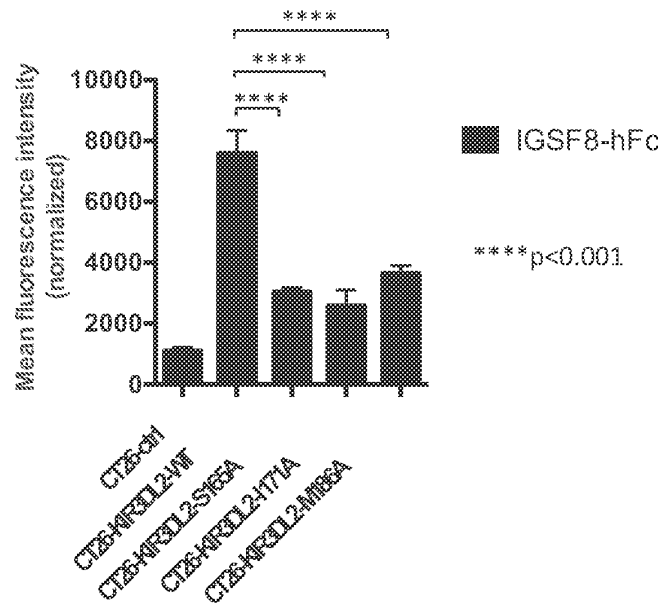


FIG. 21

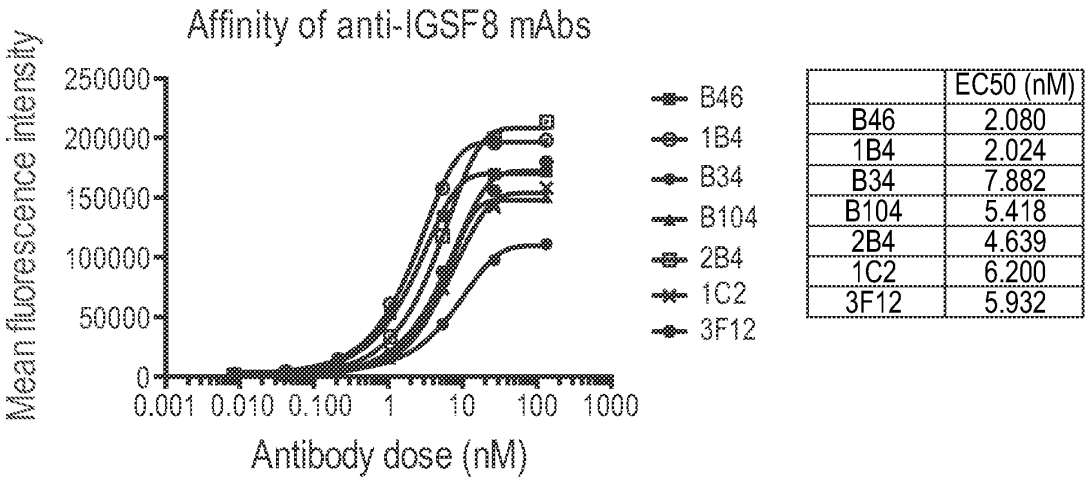


FIG. 22

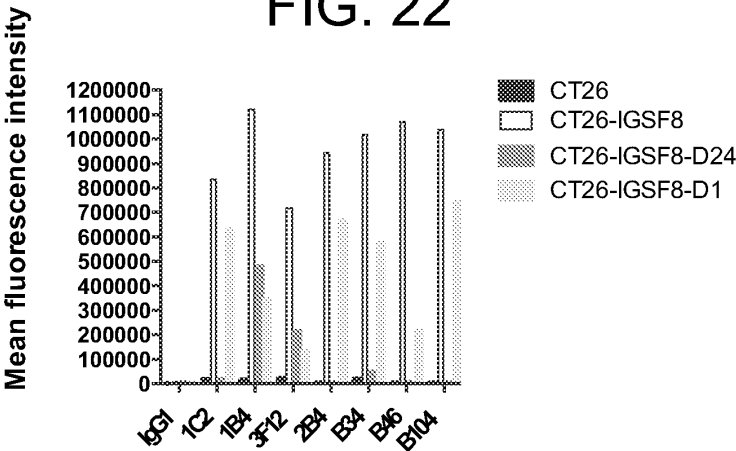


FIG. 23A

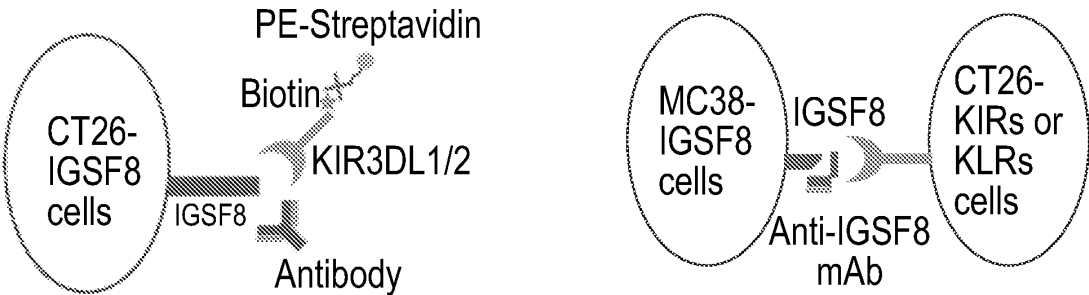


FIG. 23B

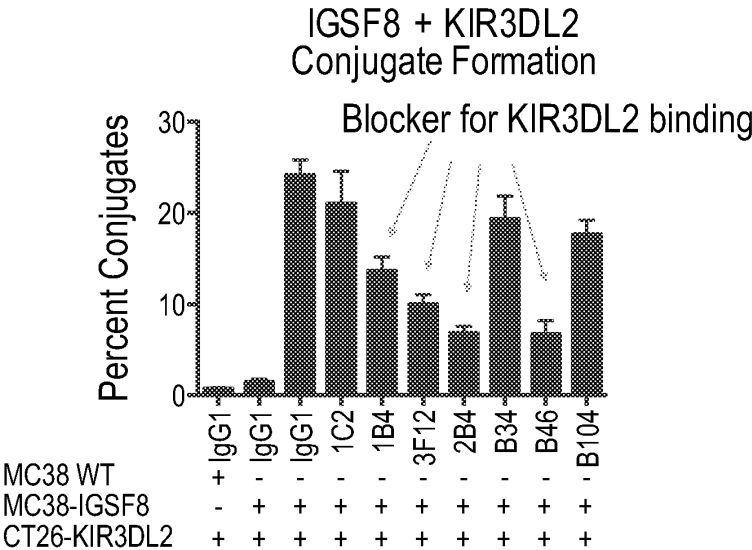


FIG. 23C

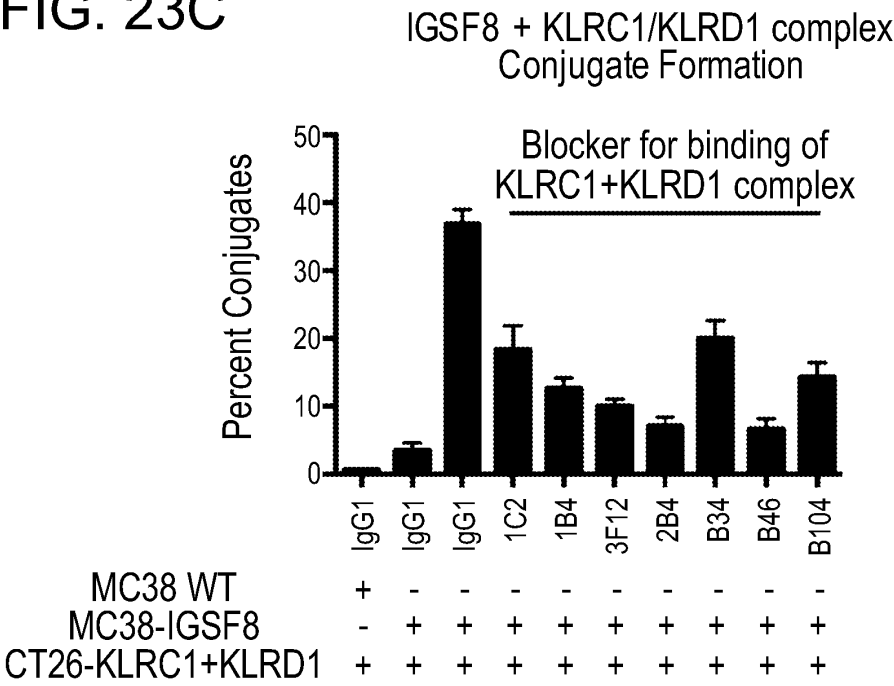


FIG. 24A

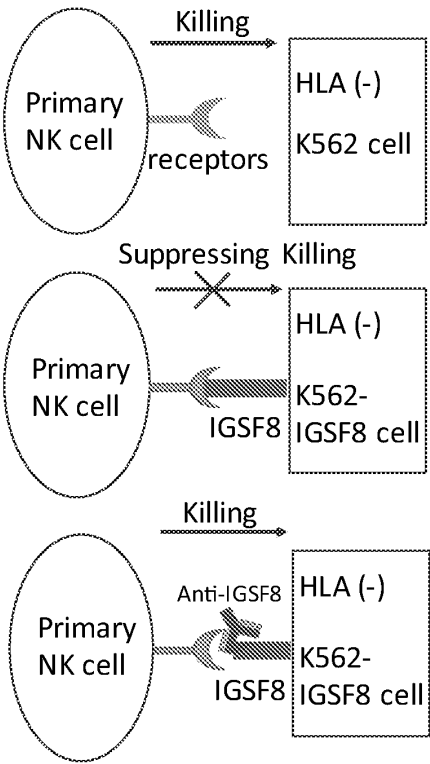


FIG. 24B

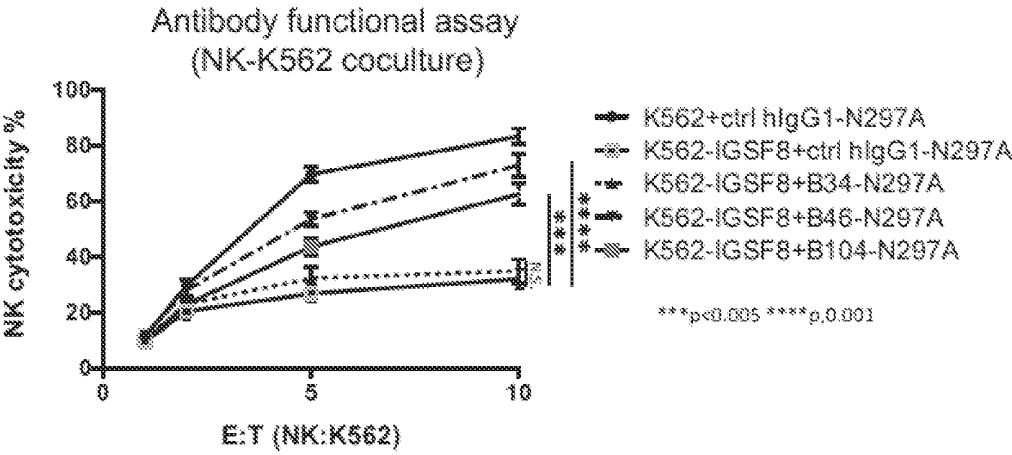


FIG. 25A

WT mice with B16-F10 syngeneic model

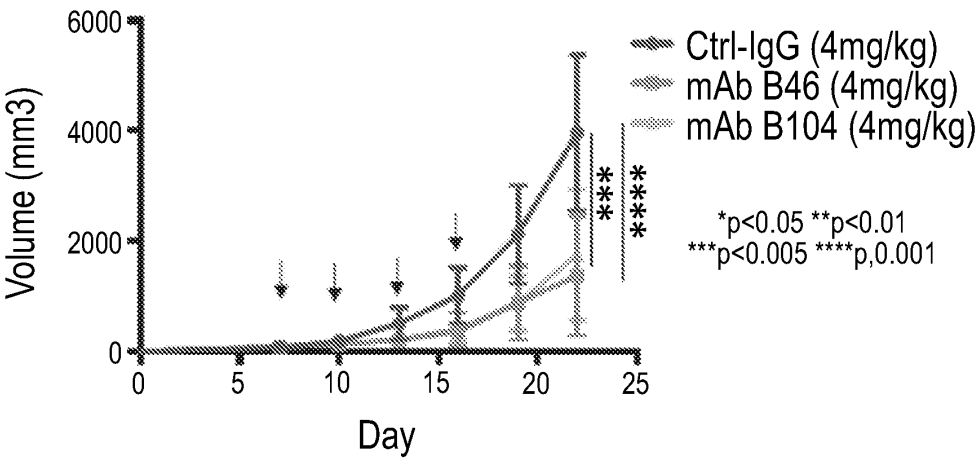


FIG. 25B

Individual mice

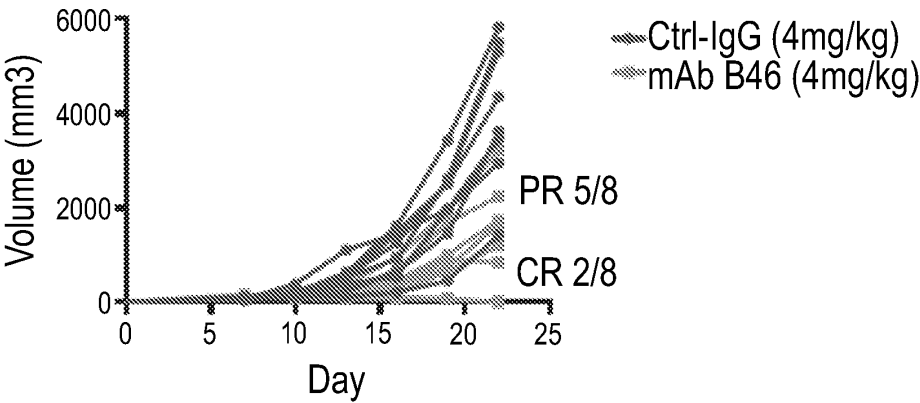


FIG. 26A

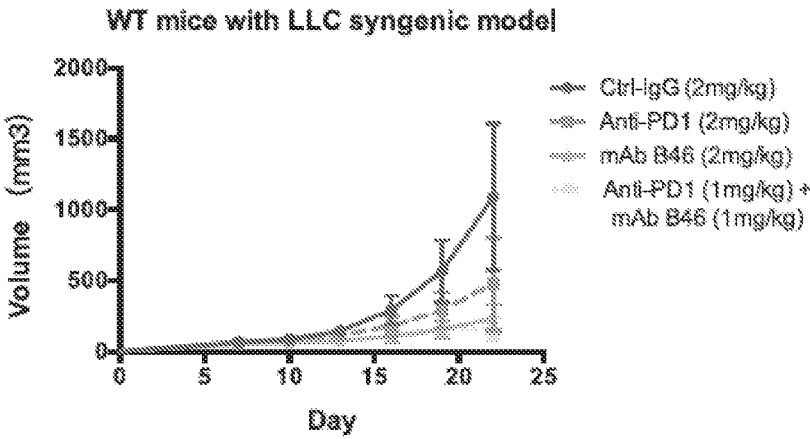


FIG. 26B

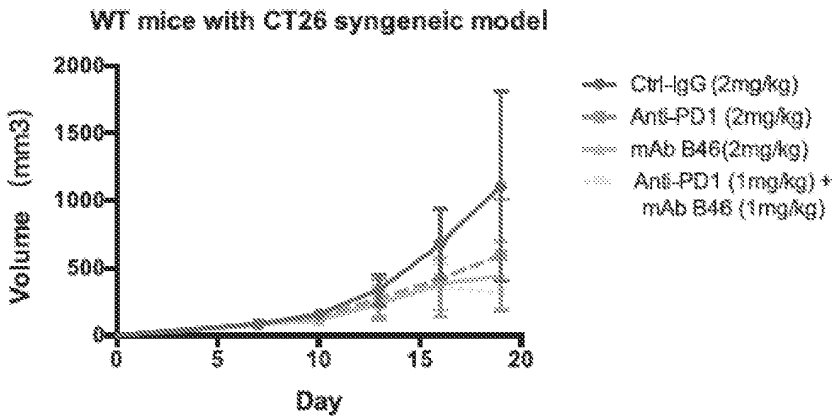


FIG. 27

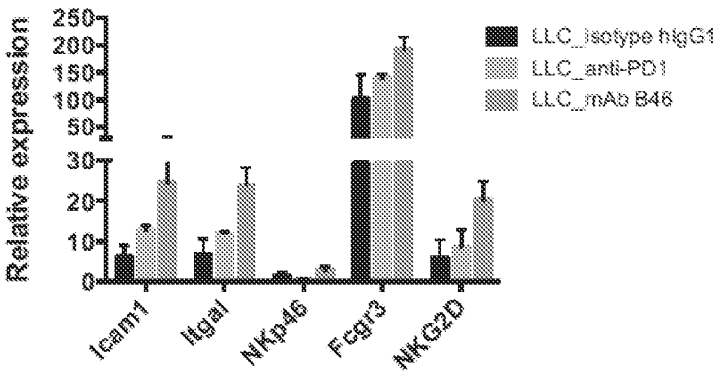


FIG. 28

L1 VH sequence: QVQLVESGGGVQPGRSLRLSCAASGFTFSTYGMHWVRQAPGKGLEWVAIWDDGSKYYGDSVKGRFTISRDN SKNTLYLQMIN
SLRAEDTAVYCARDGGSGWGAFDIWGQGTMVTVSS
CDR1 CDR2 CDR3

L1 VL sequence: DIQLTQSPSSLSASVGDRTITTCQASQDISEYLNWYQHKGKAPNPLVFDAANLETGVPPRFSGTDFSLTITSLQPEDFATYYC
QQYDSFPYTFGGQTRLDIKRTV
CDR1 CDR2 CDR3

L2 VH sequence: EVQLVESGGGLEQPGGSLRLSCAGSGFTFRDYAMTWVRQAPGKGLEWVSSISGSGGNTYYADSVKGRFTISRDN SKNTLYLQM
NSLRAEDTAIYCCARGEYSSGWPSWFDPPWGQGTLLTVSS
CDR1 CDR2 CDR3

L2 VL sequence: EIVLTQSPSSLSASVGDRTISCRASRTVGTFILNWYQRPKPPQALILGVSILEGVSSRFSGAGSGTDFSLTITSLQPEDIGTYYC
QQSHDVPRTIFGGQGTKVDLRRTV
CDR1 CDR2 CDR3

FIG. 29

L1-VH negative selection

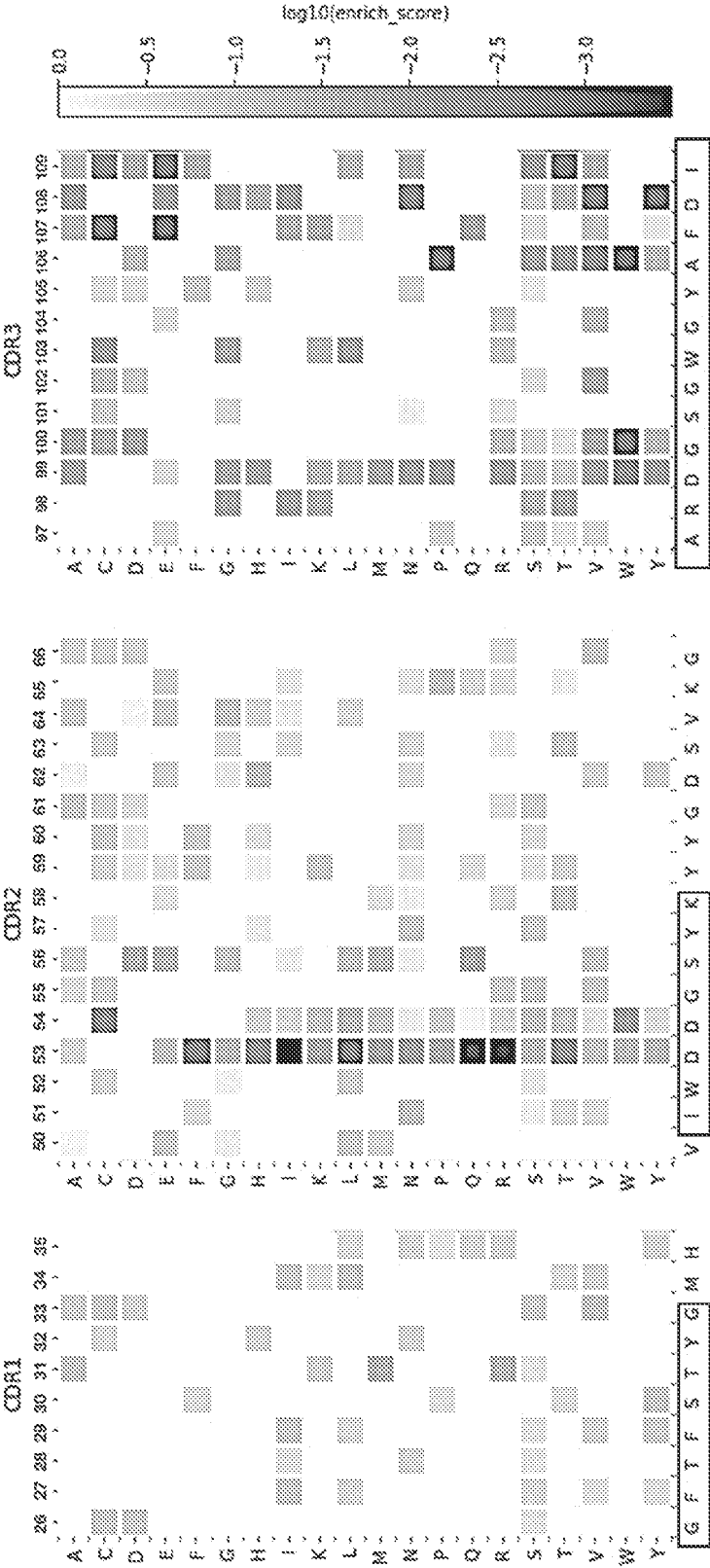


FIG. 30

L1-VH positive selection

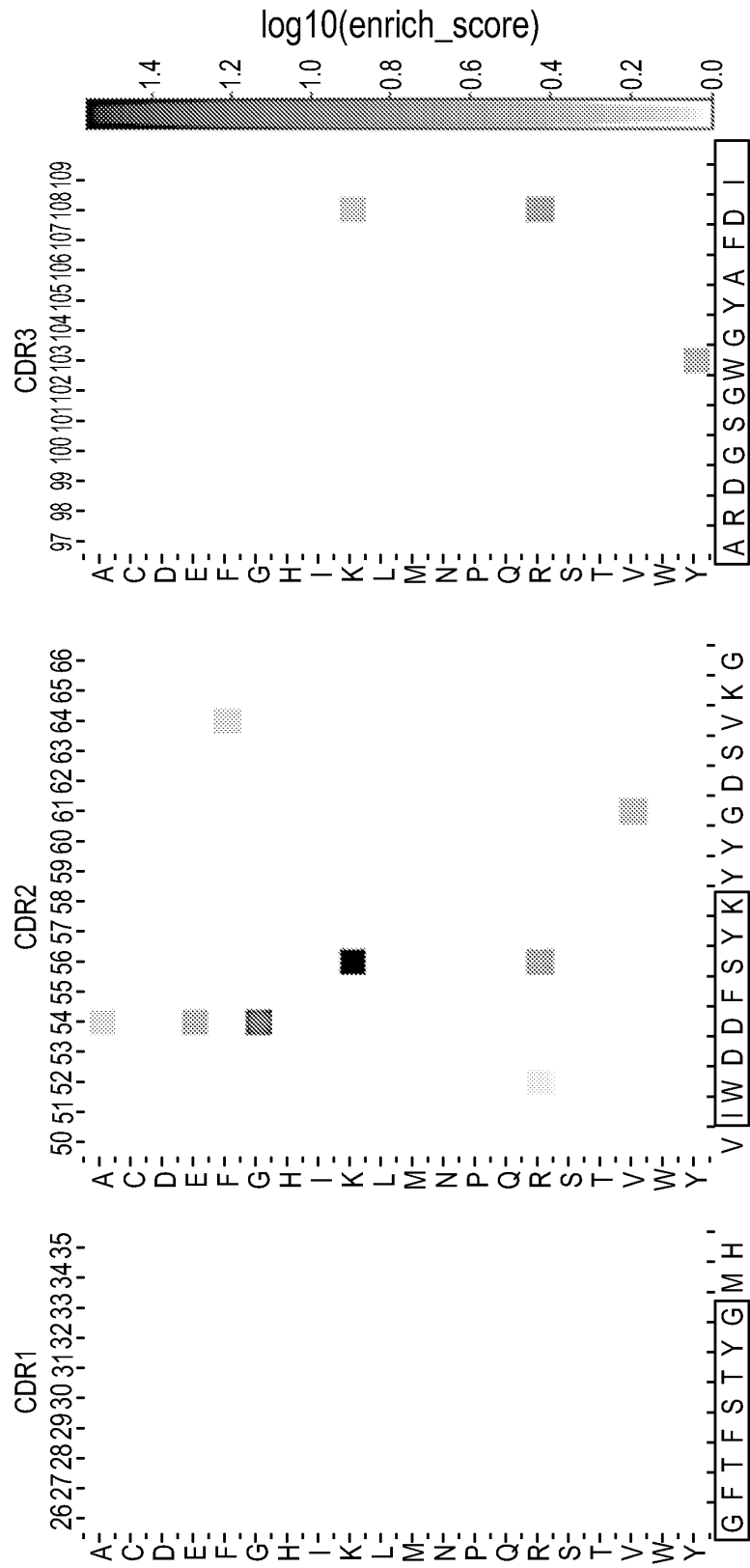


FIG. 31

L1-VL negative selection

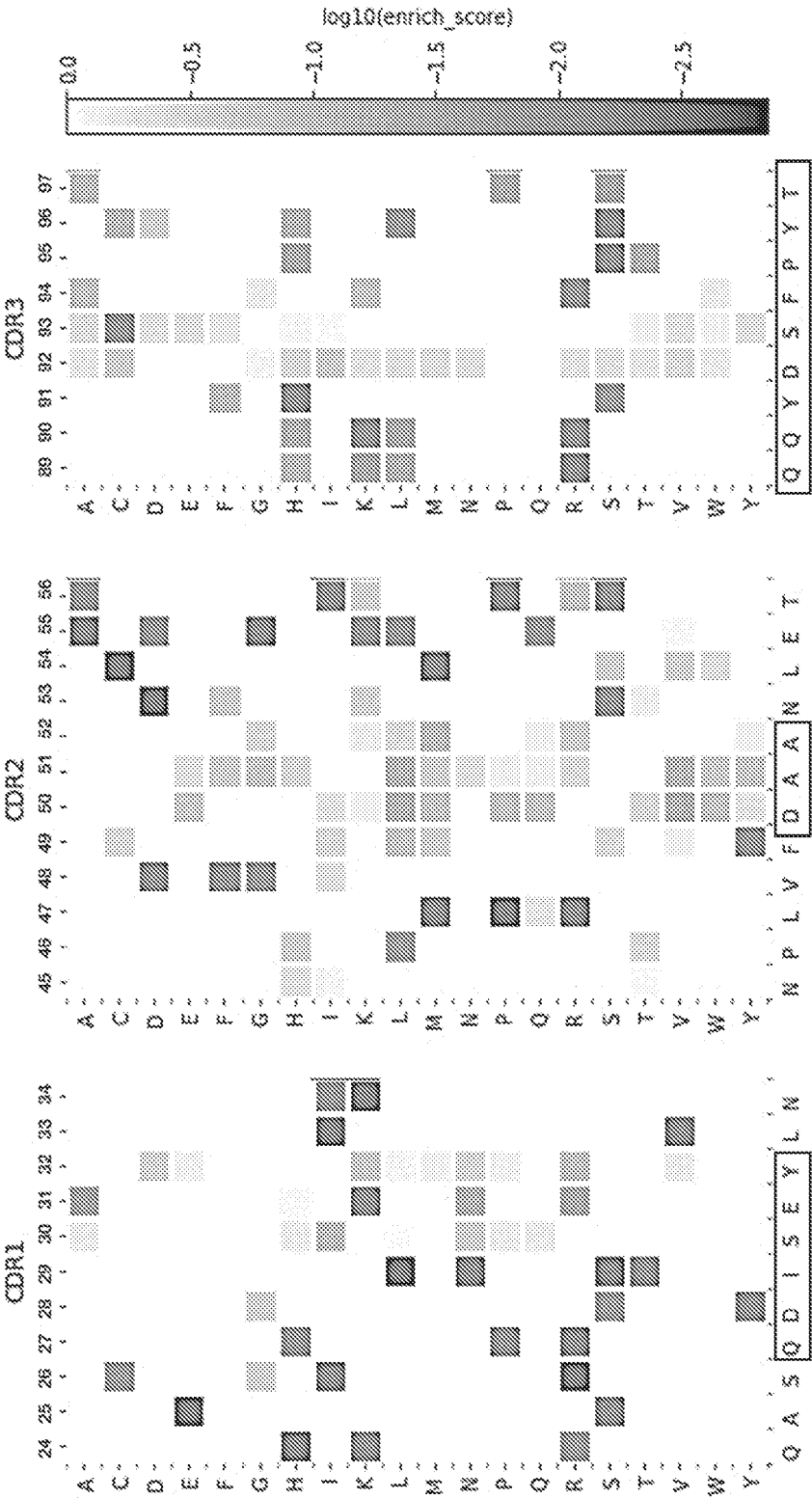


FIG. 32

L1-VL positive selection

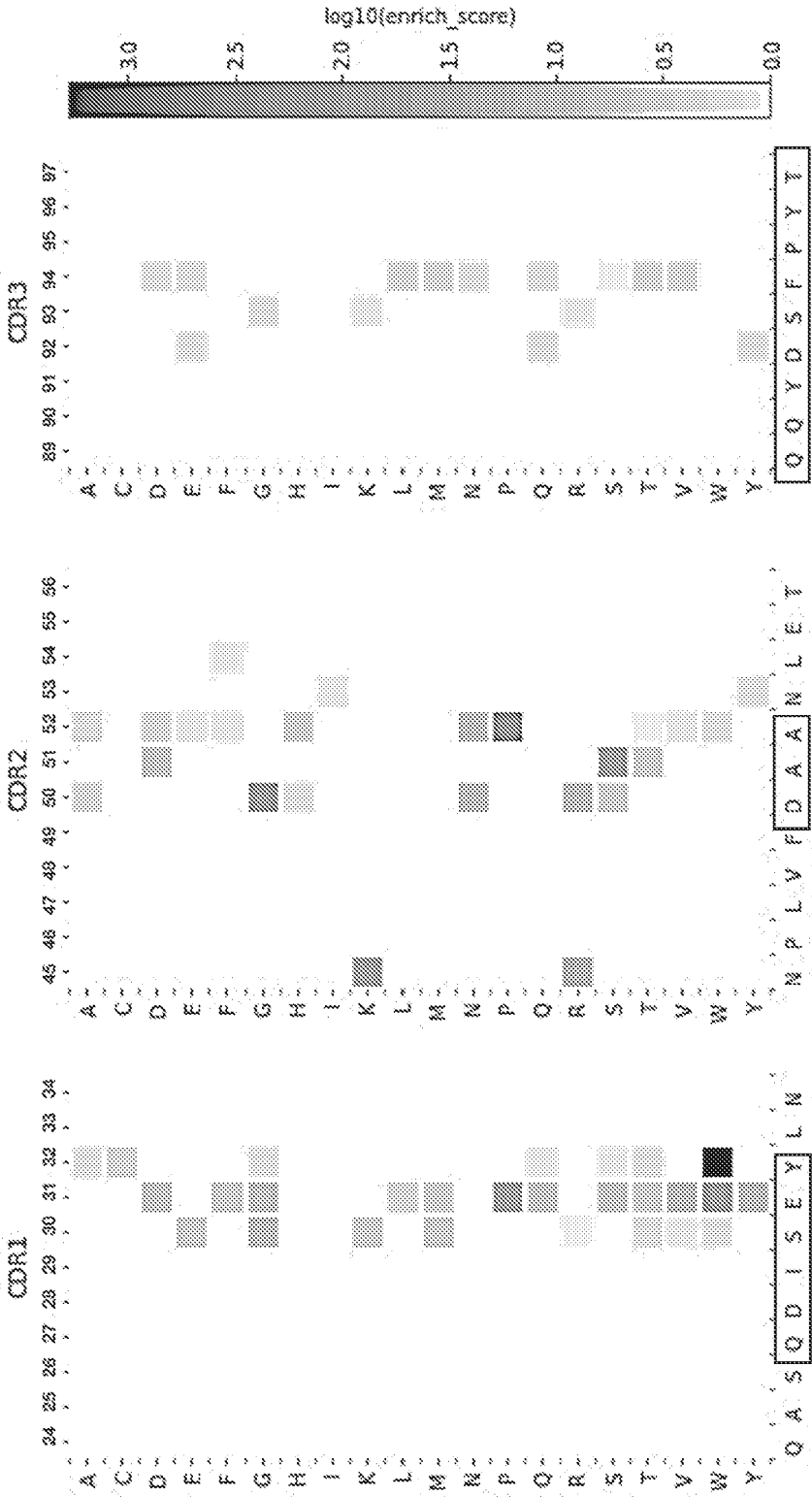


FIG. 33

L2-VH negative selection

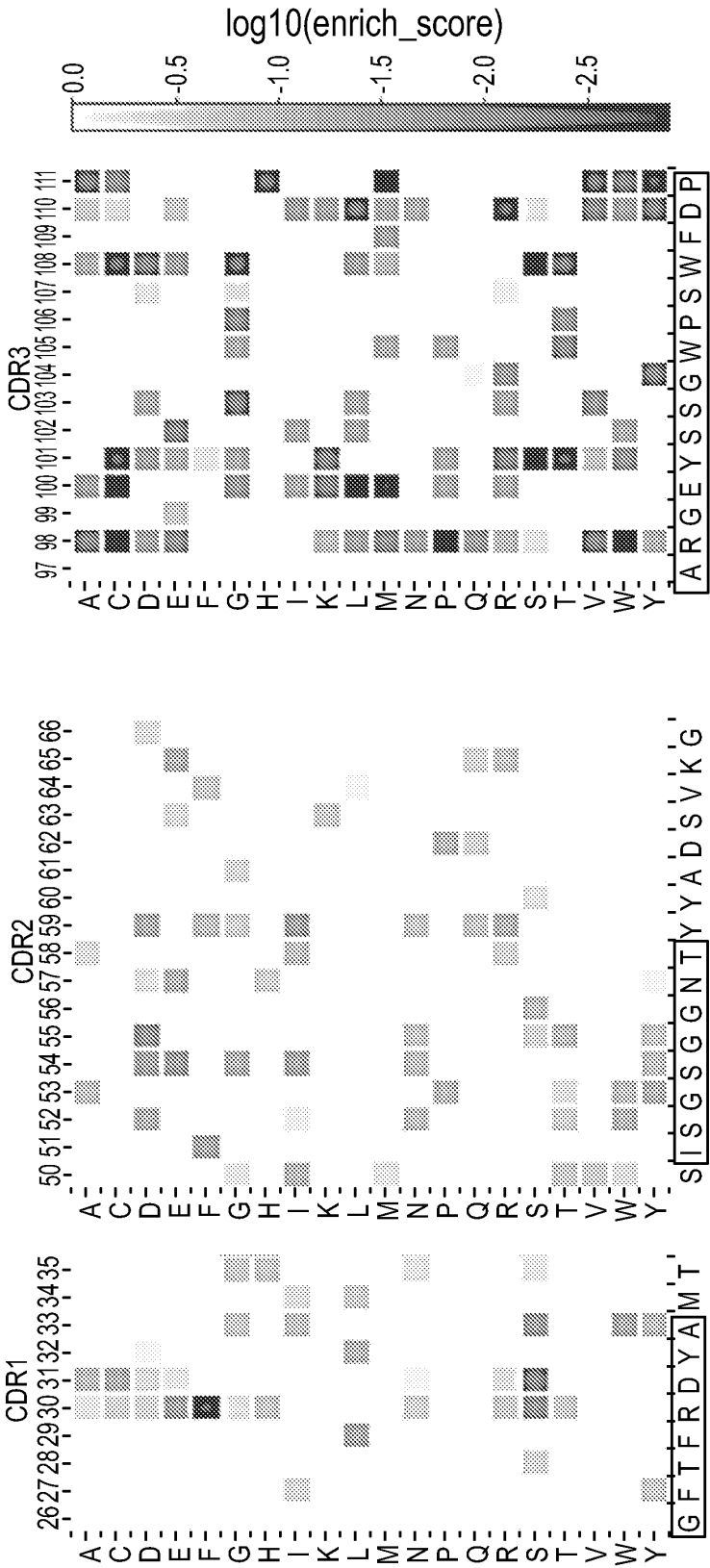


FIG. 34

L2-VH positive selection

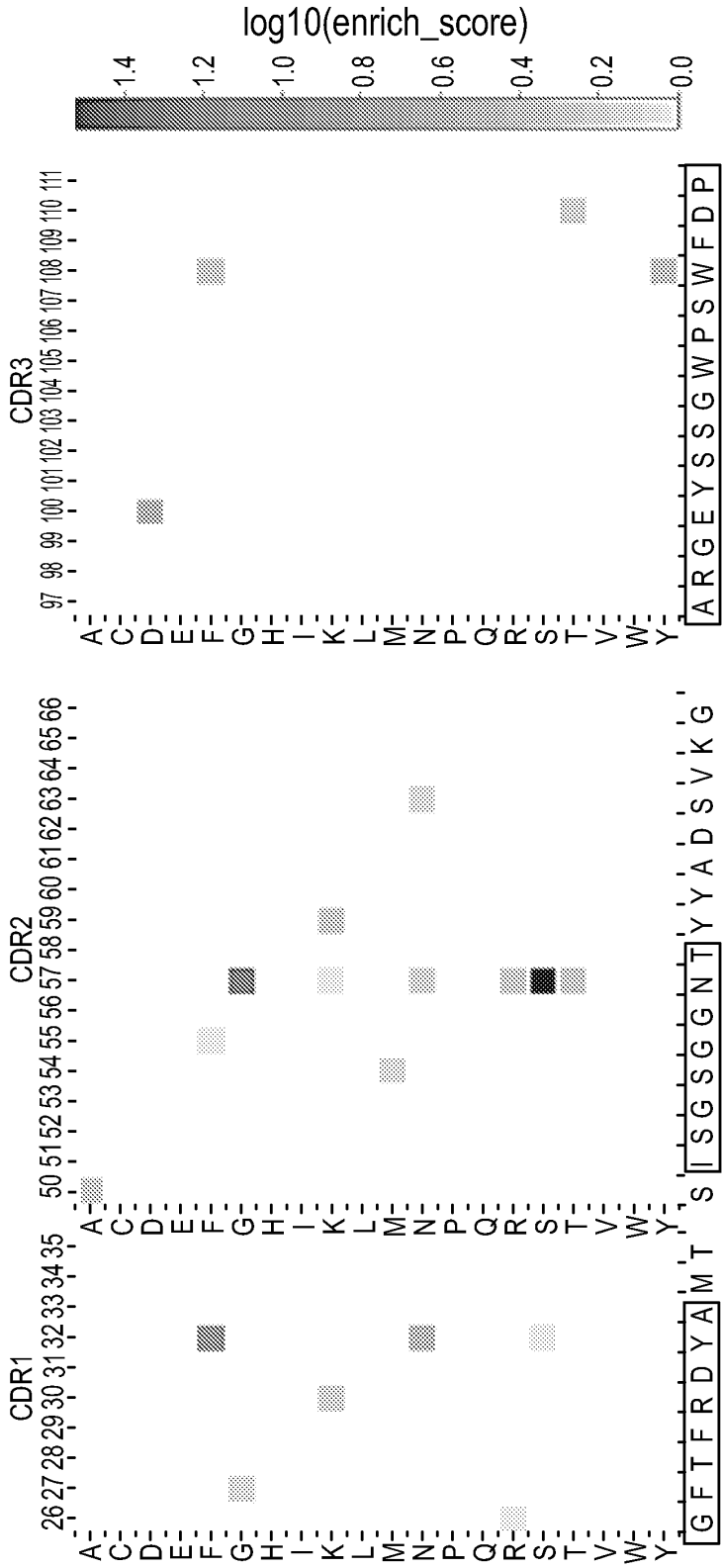


FIG. 35

L2-VL negative selection

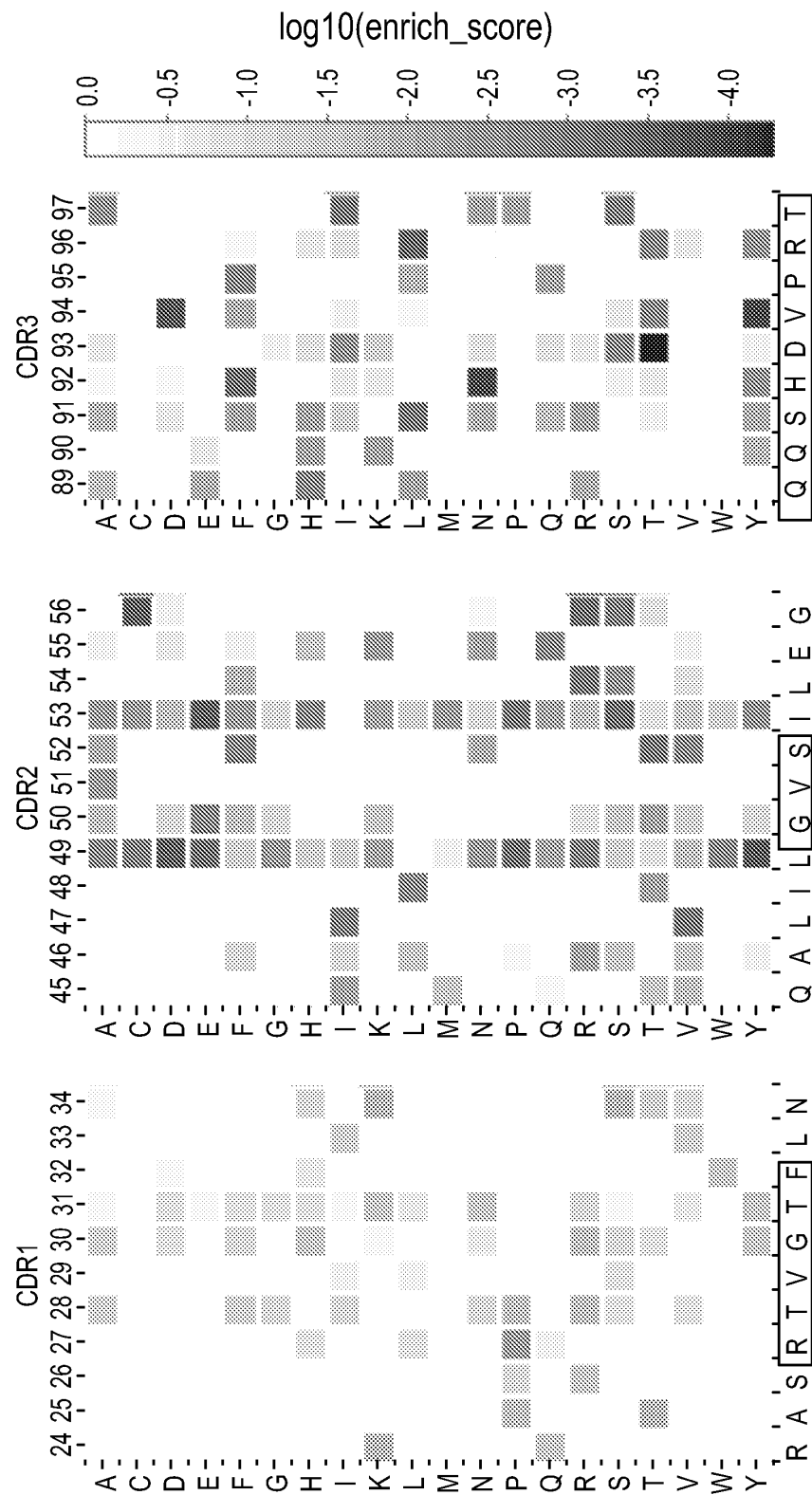


FIG. 37A

CT26 - human IGSF8

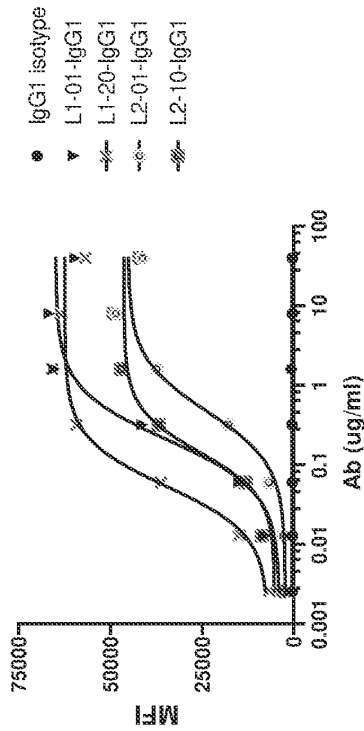


FIG. 37B

CT26 - cynomolgus monkey IGSF8

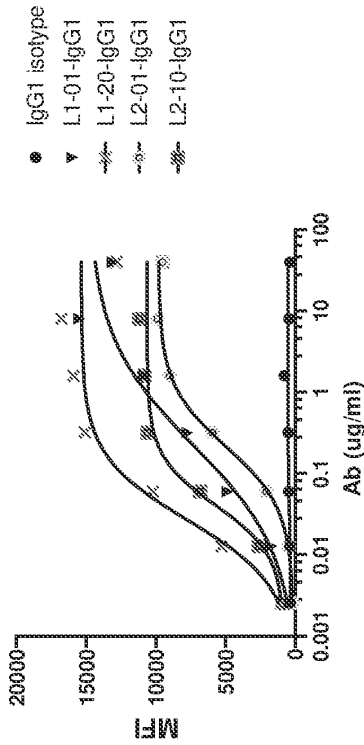


FIG. 37C

CT26 - mouse IGSF8

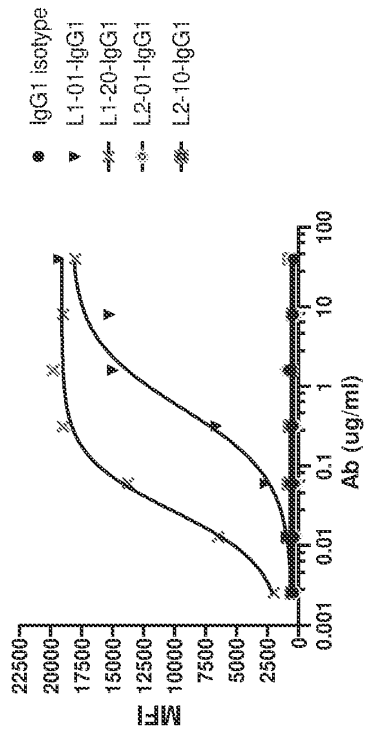


FIG. 37D

IgG1 isotype	Human IGSF8		Monkey IGSF8		Mouse IGSF8	
	EC50 (ug/ml)		EC50 (ug/ml)		EC50 (ug/ml)	
L1-01-IgG1	~	0.2056	~	0.2241	~	0.5384
L1-20-IgG1	0.05371	0.02676	0.02676	0.02751	~	~
L2-01-IgG1	0.4726	0.21167	~	~	~	~
L2-10-IgG1	0.1446	0.04098	~	~	~	~

FIG. 38A

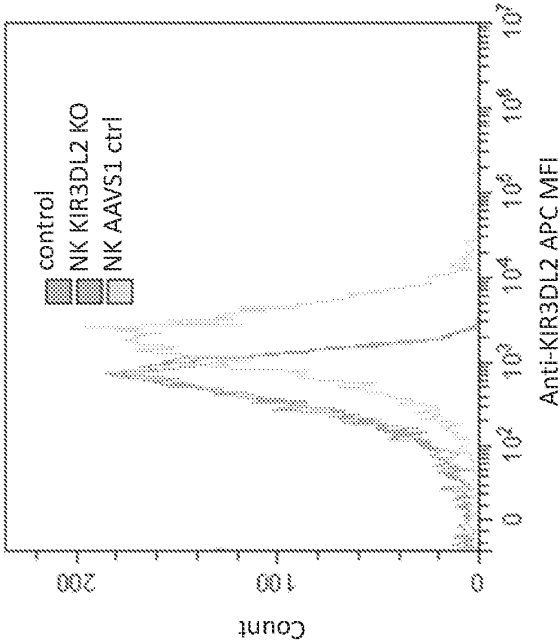


FIG. 38B

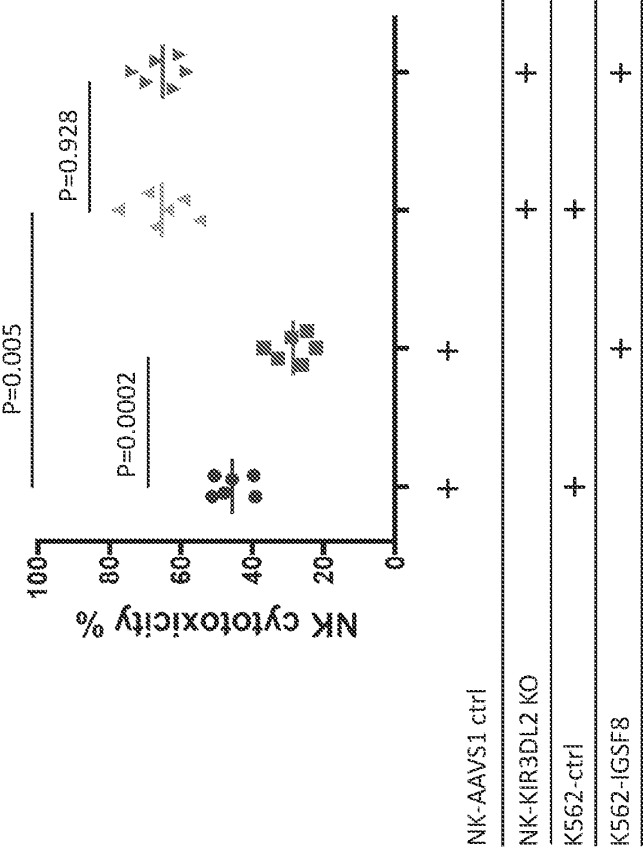


FIG. 39

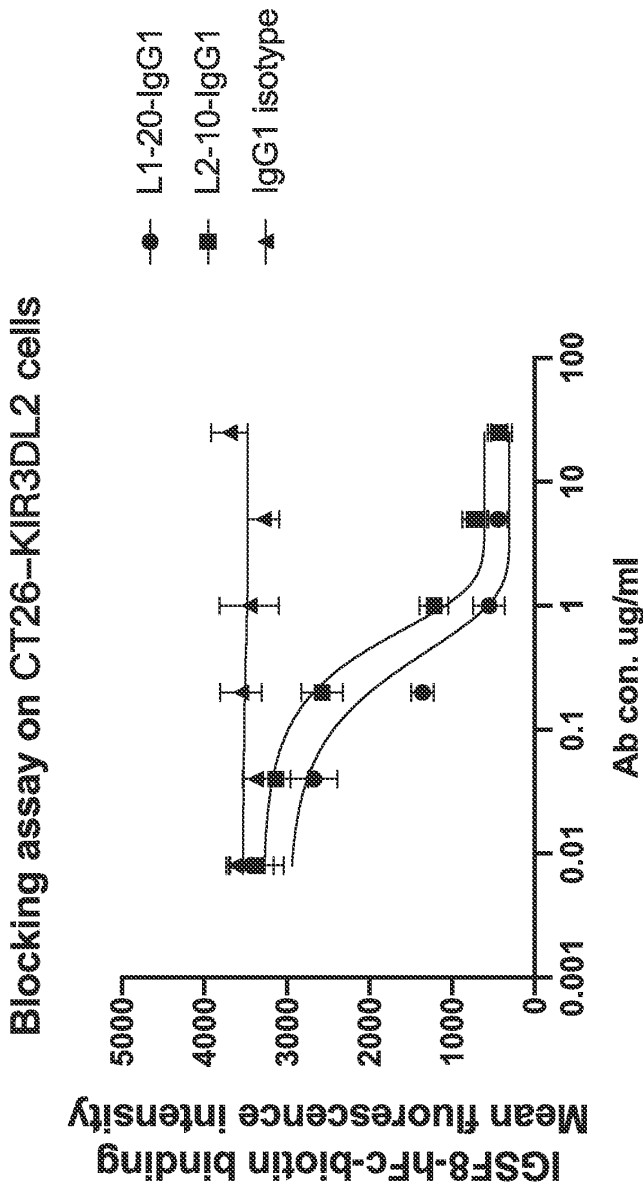


FIG. 40A

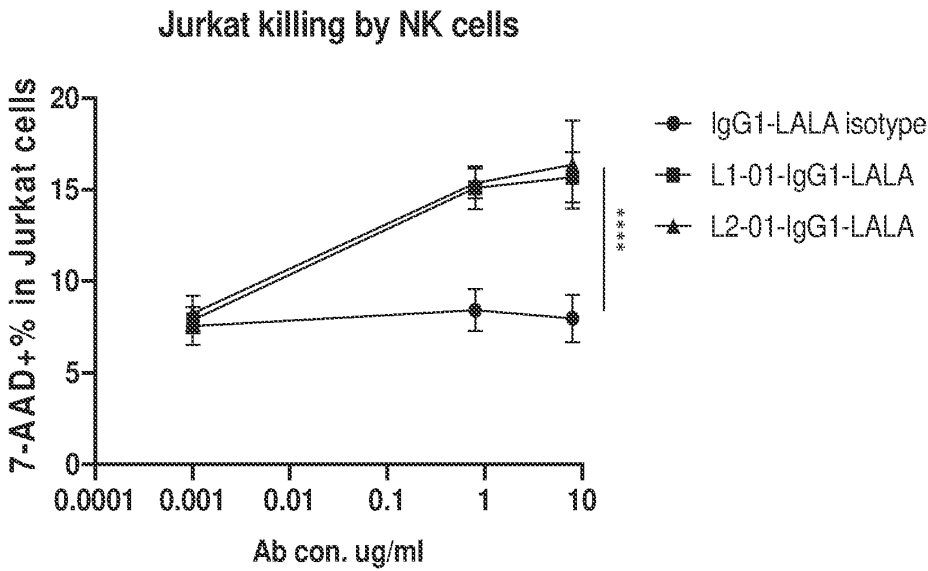


FIG. 40B

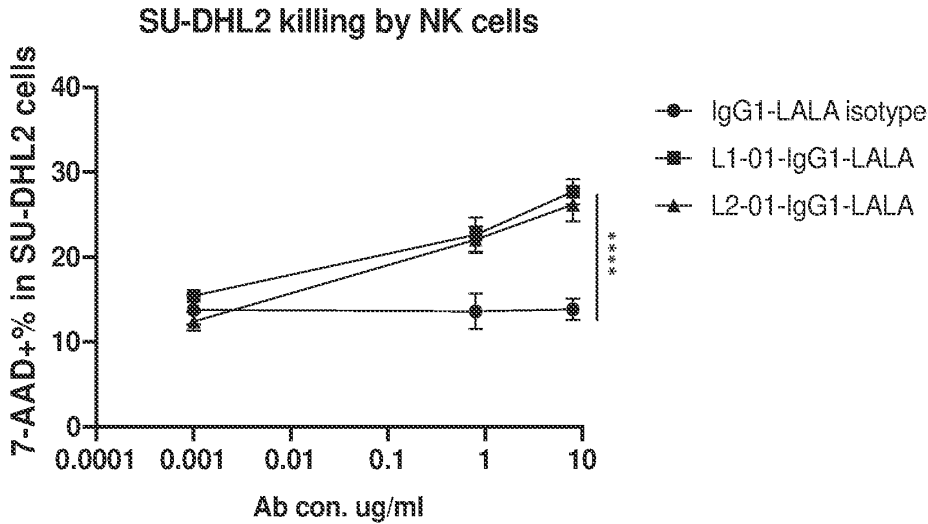


FIG. 40C

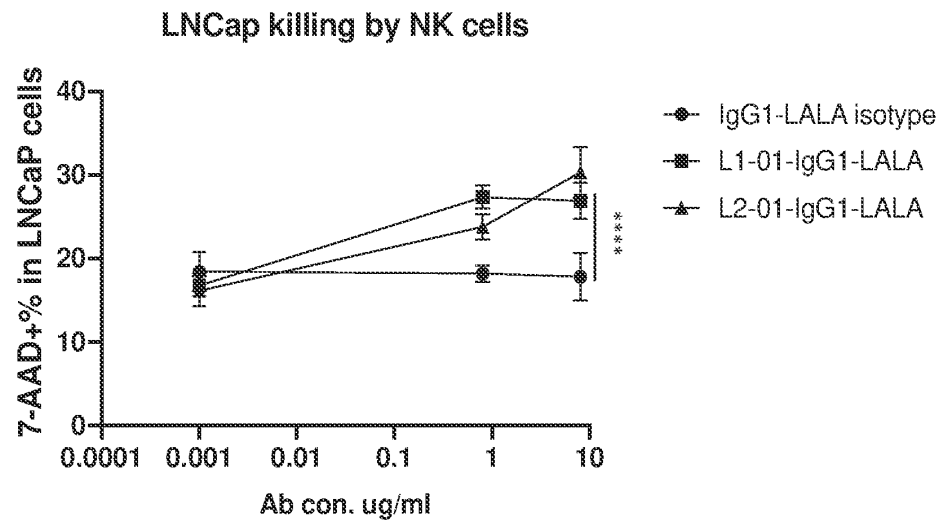


FIG. 40D

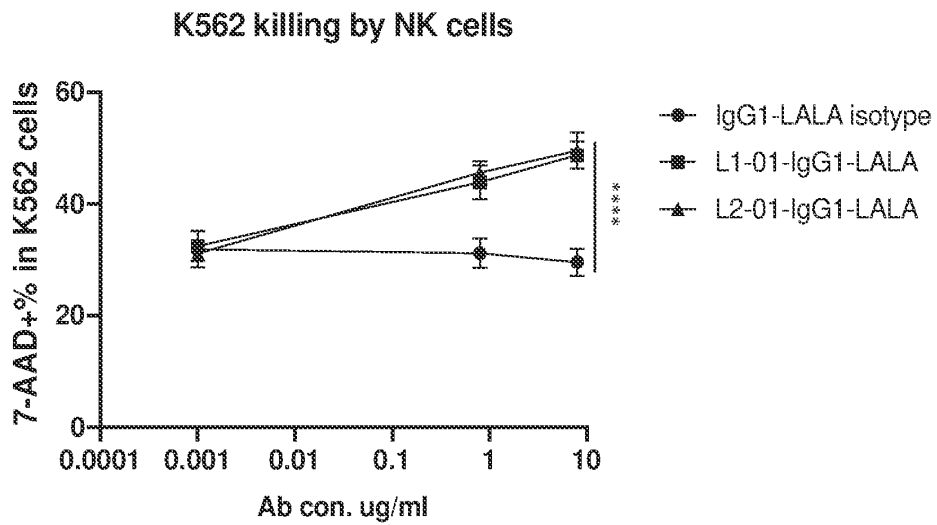


FIG. 41A

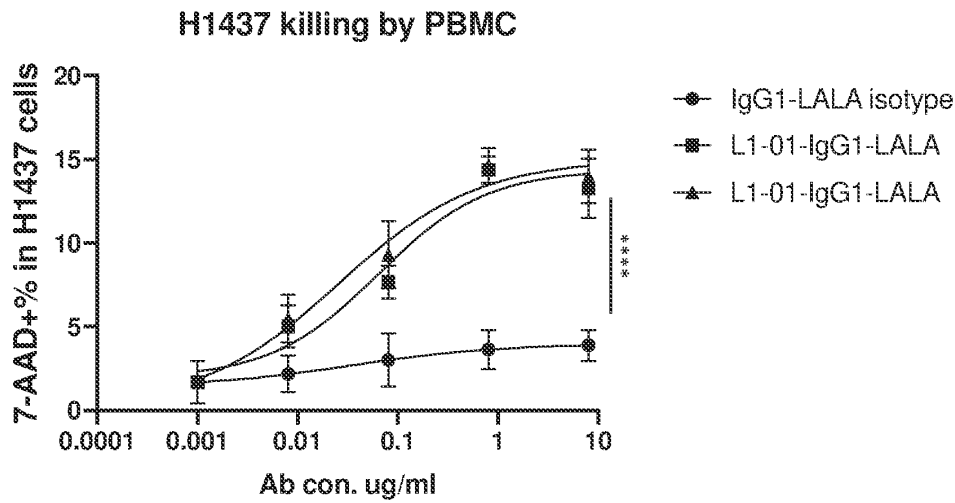


FIG. 41B

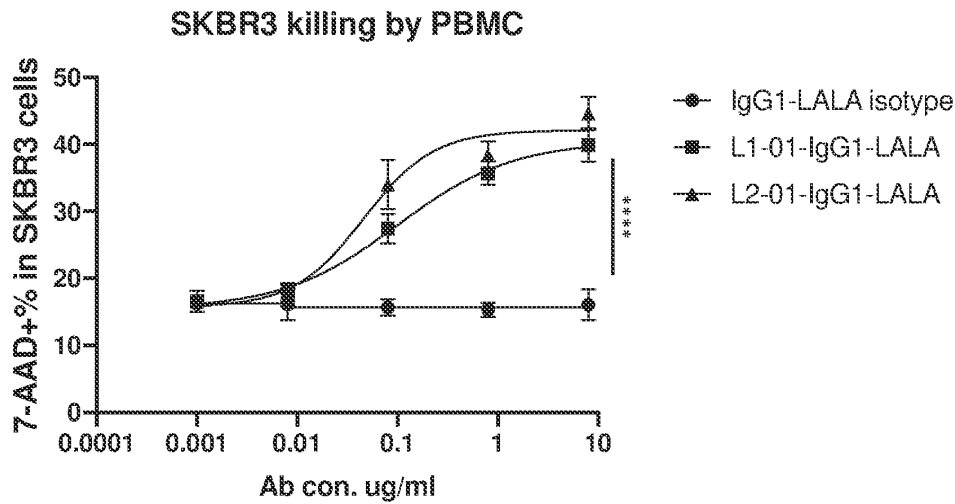


FIG. 42A

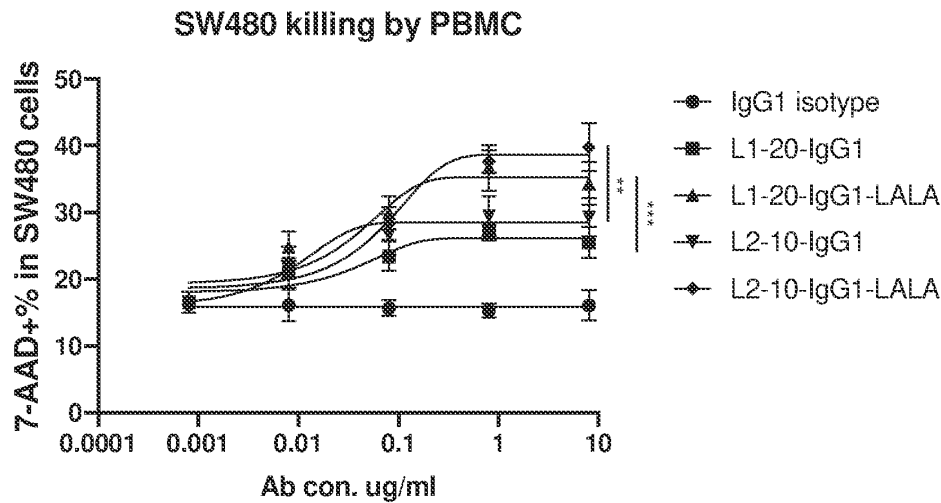


FIG. 42B

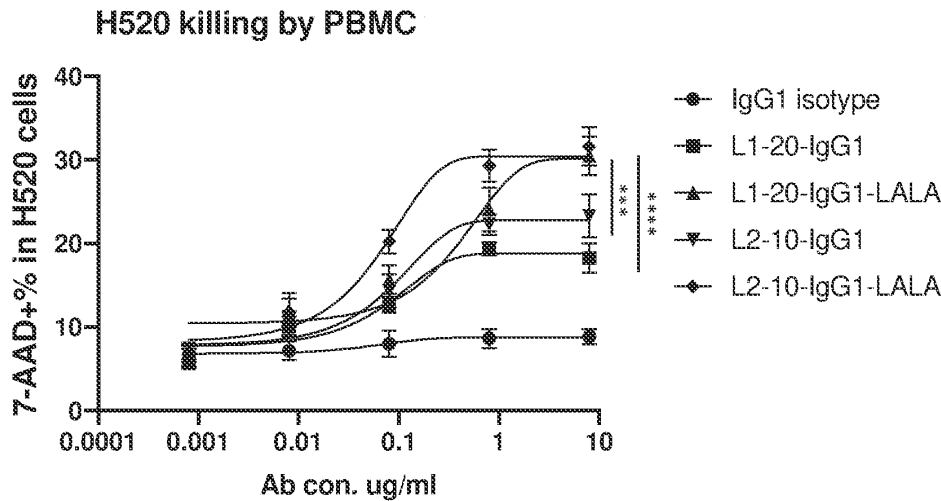


FIG. 43A

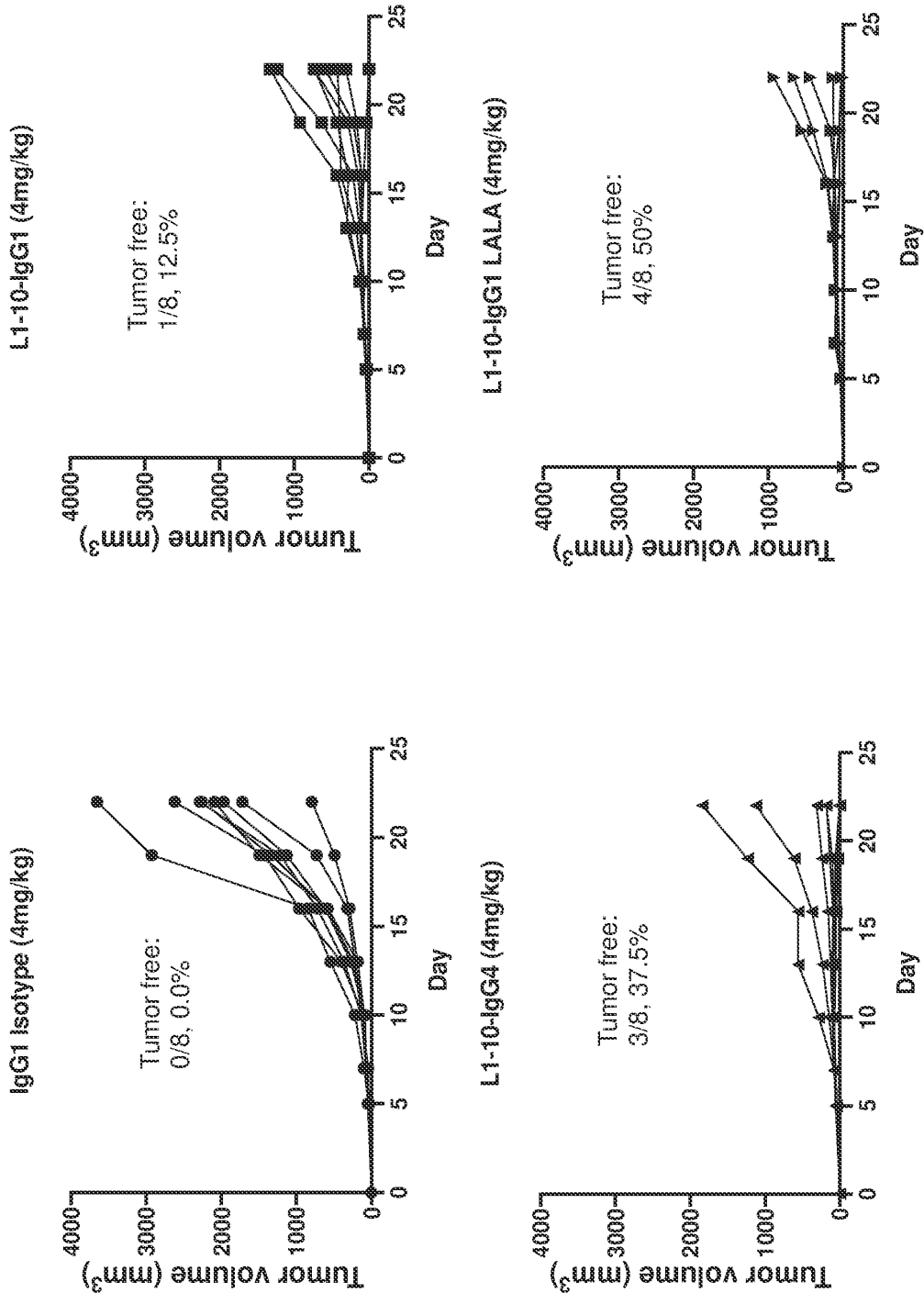


FIG. 43B

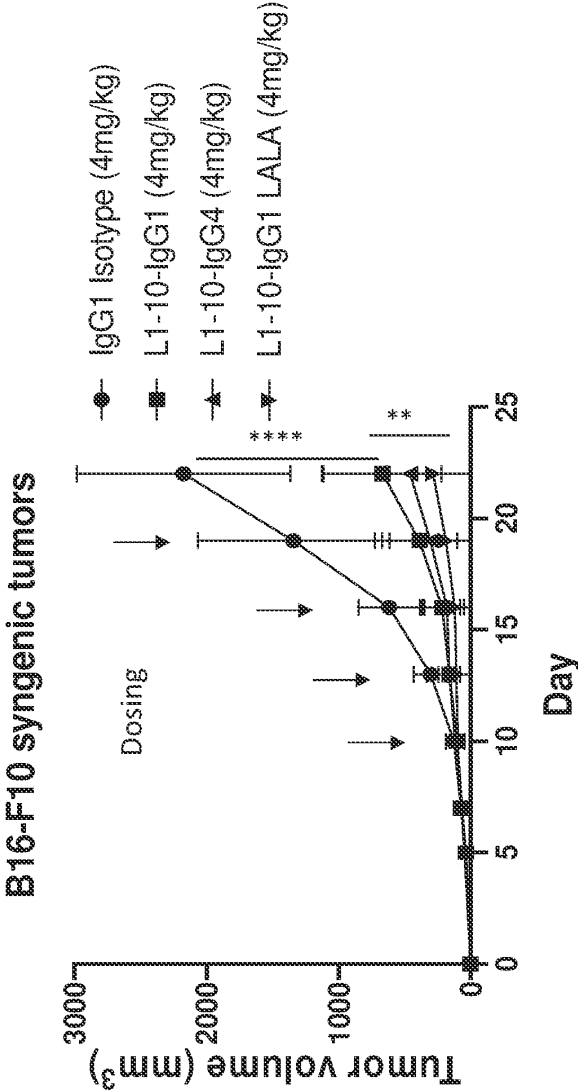


FIG. 44

