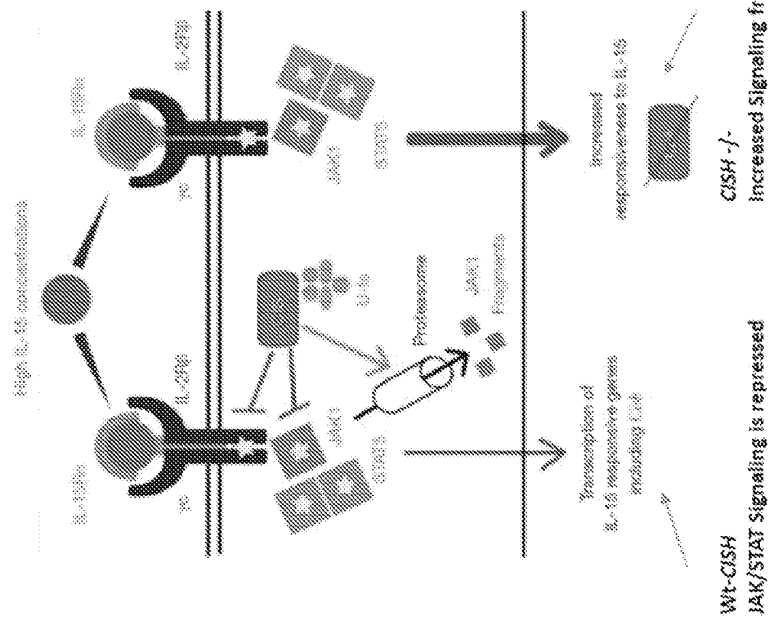


FIG. 1A



Incorporated from Bottino et al. *Transl. Cancer Res* (2016) 5(Suppl 4):S875-S877

FIG. 1B

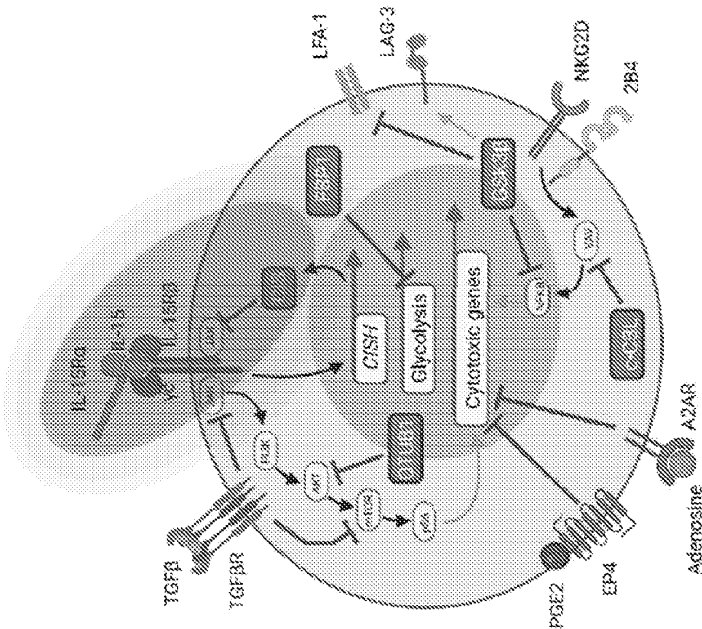


FIG. 2A

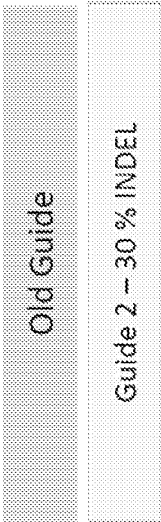


FIG. 2B

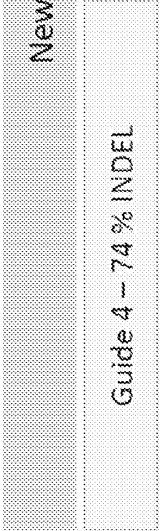


FIG. 2C

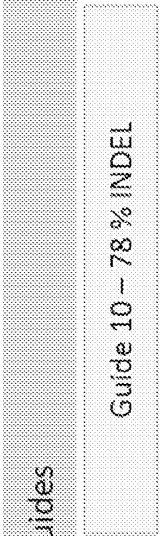
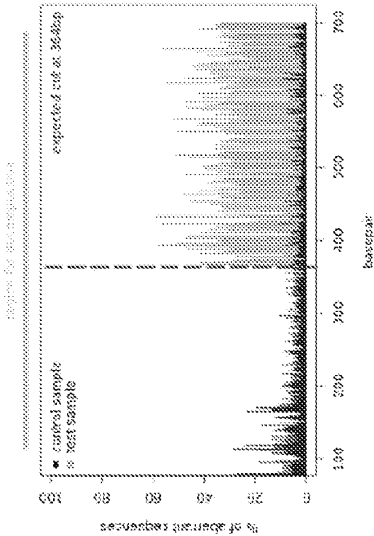
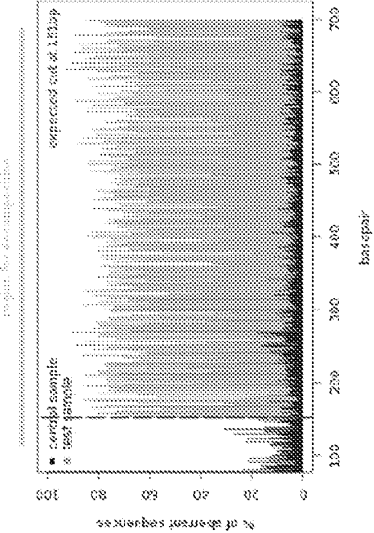
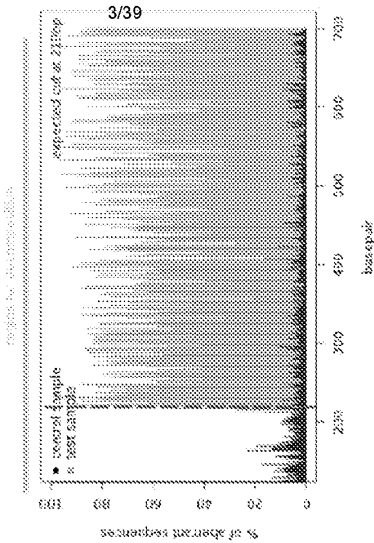


FIG. 3A

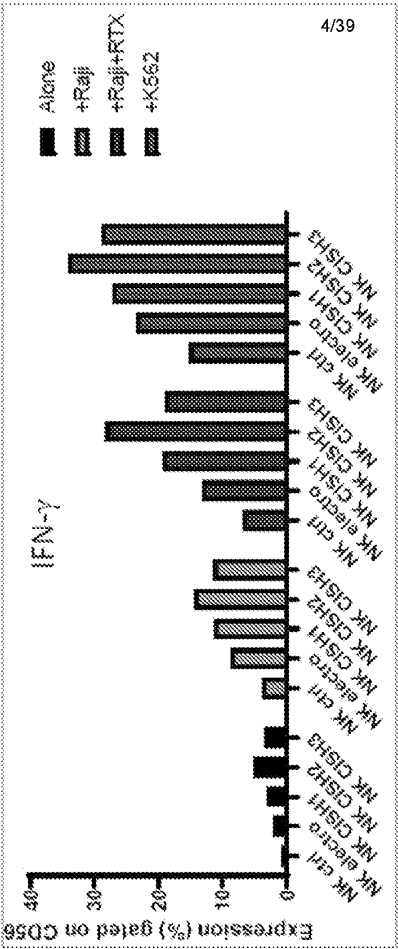


FIG. 3B

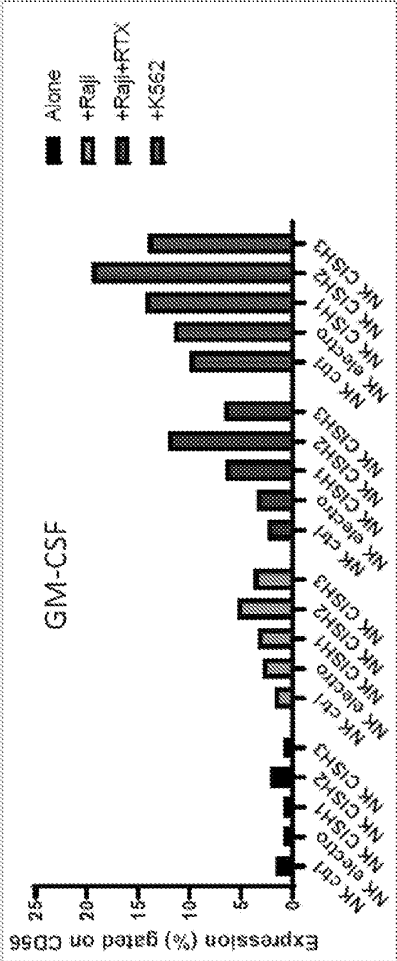


FIG. 4B
RAJI

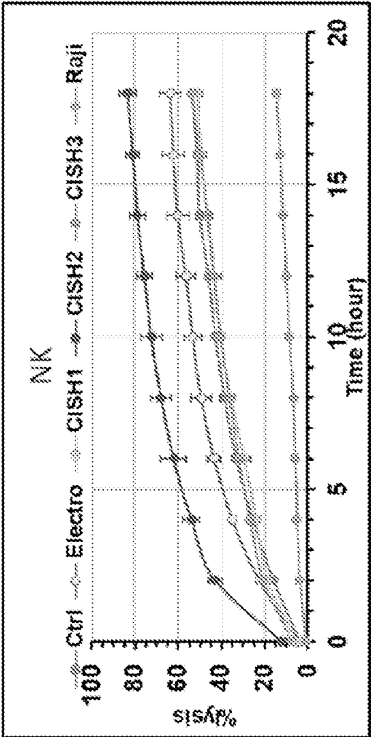


FIG. 4A
K562

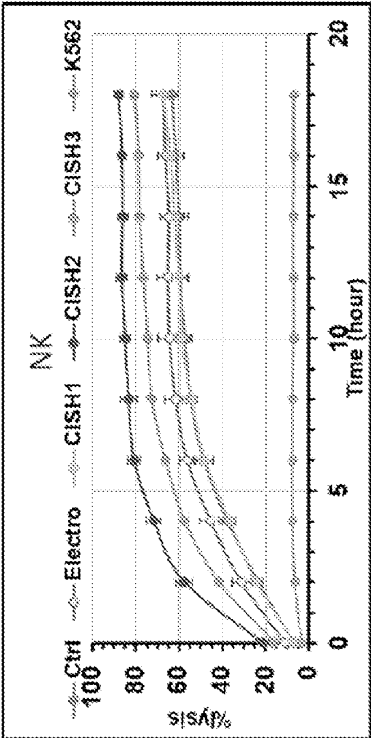
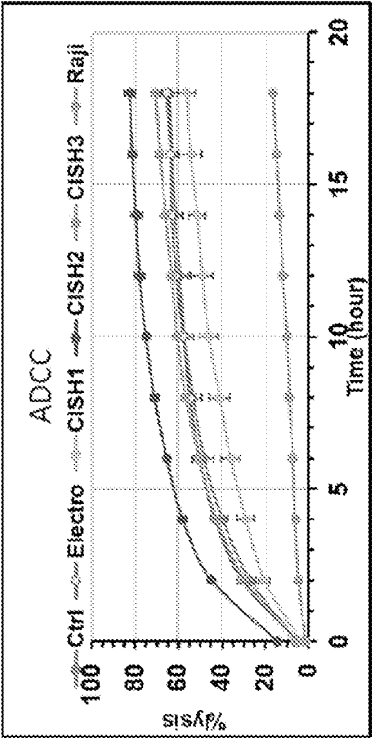


FIG. 4C



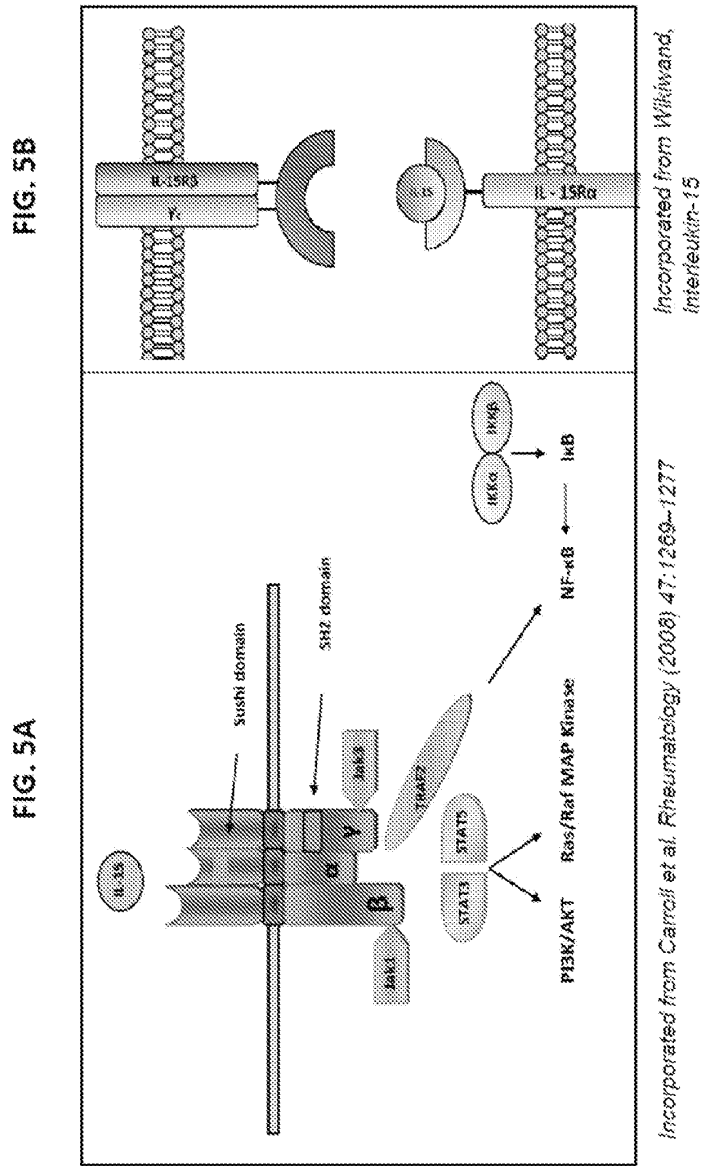
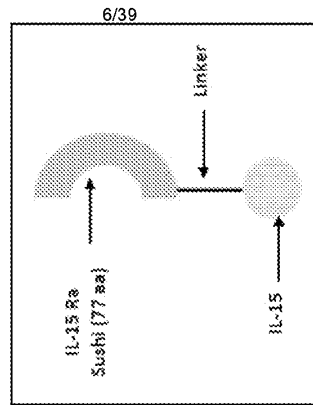
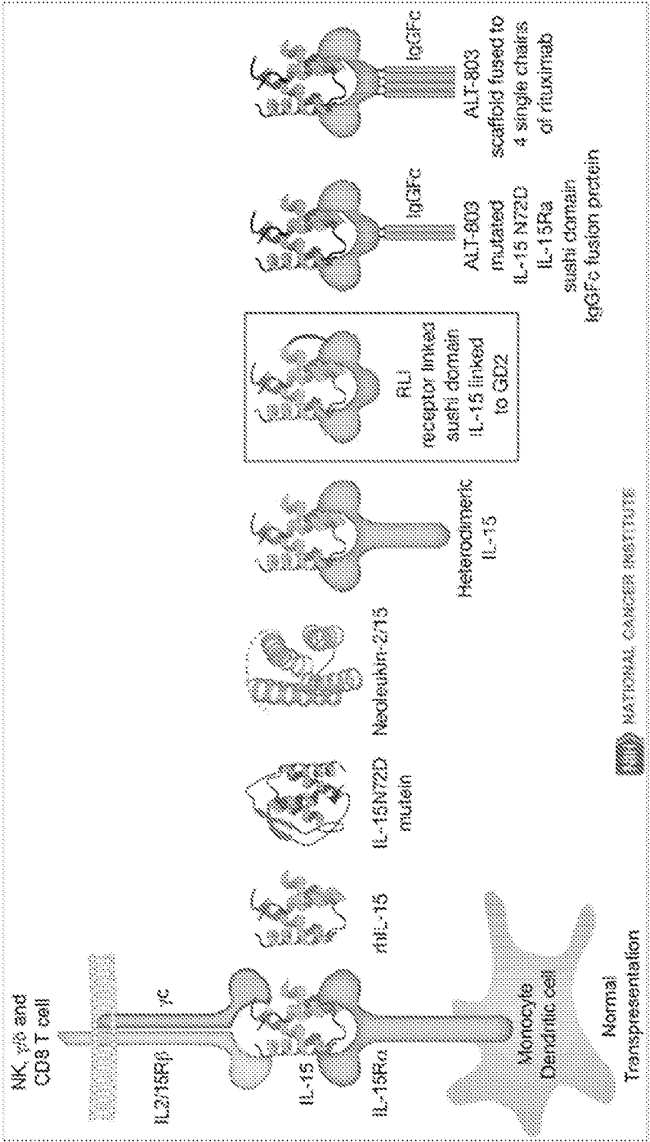


FIG. 5C



Incorporated from Hu et al. *Scientific Reports* (2018) 8: 7675

FIG. 5D



Incorporated from Waldmann et al., *Front. Immunol.* (2020) 11:868

FIG. 6A

Schematic representation of the genetic constructs 301.A

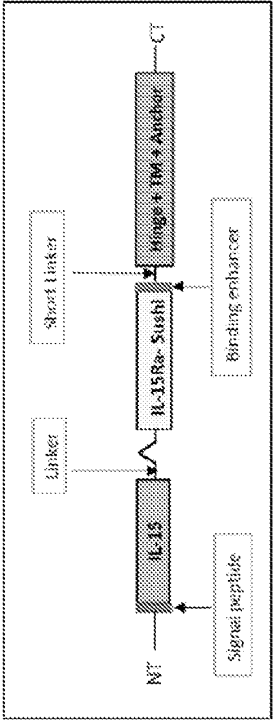


FIG. 6C

Schematic representation of the genetic constructs 301.B

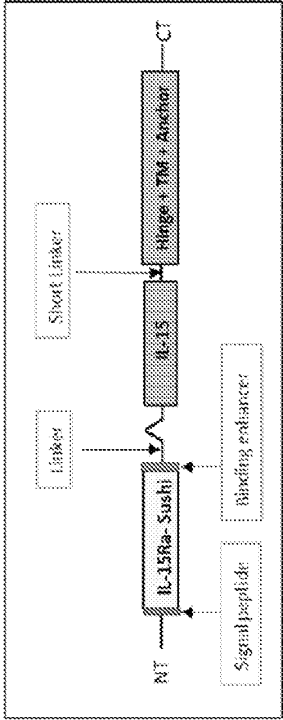


FIG. 6B

Polypeptide products of membrane bound RLI-301.A

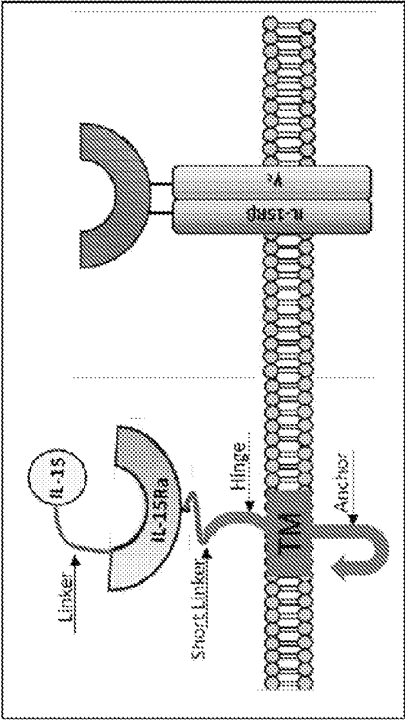


FIG. 6D

Polypeptide products of membrane bound RLI-301.B

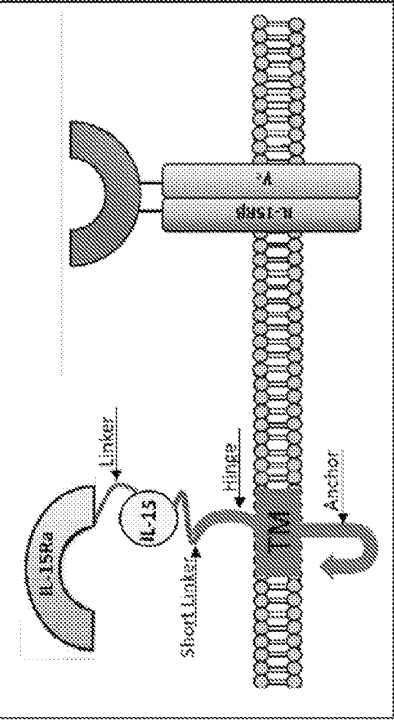


FIG. 6E

Full Length Sequence of Membrane Bound N72D RLI (GDA-301A)
ATGGATTTCAGGTGCAGATTTCAGCTTCCTGCTTAATCAGTGCCTCAGTCATATGTCCAGAGGAACCTGGGTGAATG
TAATAAGTGATTGAAAAAATTGAAGATCTTATTCATCTATGATGCTACTTTATATACGGAAAGTGATGTTT
ACCCAGTTGCAAAAGTAAACAGCAATGAAGTCTTCTCTGGAGTTACAAGTTAATTCACCTTGAGTCCGGAGATGCAA
GTATTCATGATACAGTAGAAATCTGATCATCTAGCAACGACAGTTTGTCTTCTAATGGGAATGTACAGAAATCTGG
ATGCAAGAATGTGAGGAACTGGAGGAAAAAATATTAAAGAAATTTTGACAGATTTTGACATATTGTCCAAATGTT
CATCAACACTTCTGGAGGGGTGGTAGTGGGGGTGGTGGAGTGGAGGCGGAGGAAGTGGCGGGGGGAGCGG
GAGGGGTGGTAGTATCACGTGCCCTCCCCCATGTCCTGGTGGAAACGACAGACATCTGGGTCAAGAGCTACAGCTTGT
ACTCCAGGGAGCGGTACATTTGTAACTCTGGTTTCAAGCGTAAAGCCGGCACGTCCAGCCTGACGGAGTGGGTGGA
ACAAGGCCACGAATGTGCCCCACTGGACAACCCCACTCTCAATGCAATTAGAGACCCCTGCCCTGGTTCCACAAAGGC
CAGCGCCACCCGGAGGAGGTGGCTCCGGCGGAGGTTCCGGGGGTGGCTCTCTCCAGCCACCATCCCCATCGTG
GGCATCATTTGGCTGGCTGGTTCTCCTTGGAGCTGTGATCAGTGGAGCGTGGTGGCTGGCGGTGATGTGGAGGAGGAAG
AGCTCAGATAGAAAAGGAGGGAGTTACATCAGGGCTGCAAGCAGTGCAGTGGCCAGGGCTCTGATGTGTCTCTCAC
AGCTTGTAAAGTGTGA

SEQ ID NO: 23

FIG. 6F

Full Length Sequence of Membrane Bound N72D RLI (GDA-301B)
ATGGATTTTCAGGTGCAGATTTTCAGCTTCCTGCTAATCAGTGGCTCAGTCATAATGTCACAGAGGAATCAGTGCCCTCC
CCCCATGTCCTGGAAACACGCAGACATCTGGGTCAAGAGCTACAGCTTGTACTCCAGGGAGCGGTACATTTGTAACTCT
GGTTCAAGCGTAAAGCCGGCAGCTCCAGCTGACGGAGTGGTGTGAACAAGGCCACGAATGTCGCCCACTGGAC
AACCCCACTCTCAATGCATTAGAGACCTGCCCTGGTTCACCAAGGCCAGGCCACCCGGAGGGGTGGTAGTG
GGGTGGTGGAGTGGAGGCGGAGGAAGTGGCGCGGGGCCAGCGGAGGGGTGGTAGTAACCTGGGTGAATGTA
ATAAGTGATTTGAAAAAATTGAAGATCTATTCAATCAIGCAATATTGATGCTACTTTAATAACGGAAGTGAITTCAC
CCCAGTTGCAAAAGTAACAGCAATGAAGTGCTTTCTCTTGGAGTTACAAGTTATTTCACTTGAGTCCGGAGATGCAAGT
ATTCAIGATACAGTAAATCTGATCATCTAGCAAAACGACAGTTGTCTTCTAATGGAATGTAACAGAACTCTGGAT
GCAAGAATGTGAGGAAGTGGAGGAAAAAATATTAAAGAAATTTTGCAGAGTTTGTACATATTGTCCAAATGTTCA
TCAACACTTCTGGAGGAGTGGCTCCGGCGGAGGTTCCGGGGGTGGCTCTCTTCCAGGCCACCAATCCCATCGTGG
GCATCATTTGCTGGCTGCTCTCTTGGAGCTGTGATCACTGGAGCTGTGGTGGCTGGCTGGTGTGAGGAGGAAGA
GCTCAGATAGAAAAAGGAGGGAGTTACACTCAGGCTGCCAAGCAGTGACAGTGGCCAGGGGCTCTGATGTCTCTCACA
GCTTGTAAGTGTA

SEQ ID NO: 26

FIG. 7

Flow Cytometry degranulation analysis

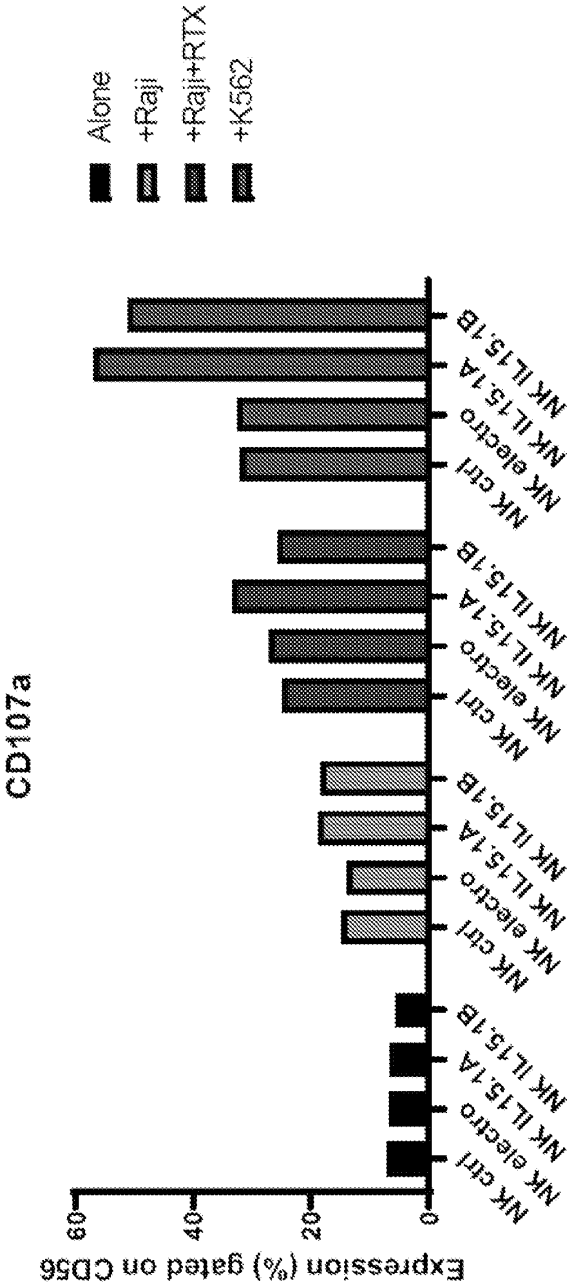


FIG. 8A
Flow Cytometry- Cytokine Intracellular staining Analysis

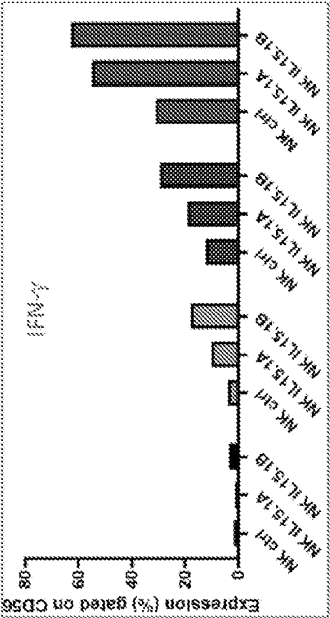


FIG. 8C

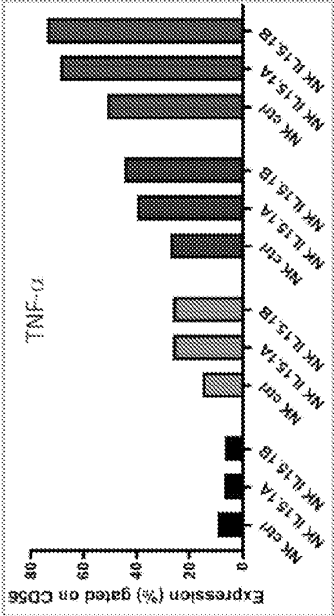


FIG. 8B

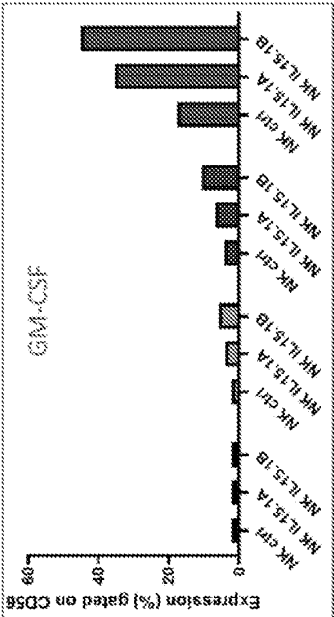


FIG. 9A

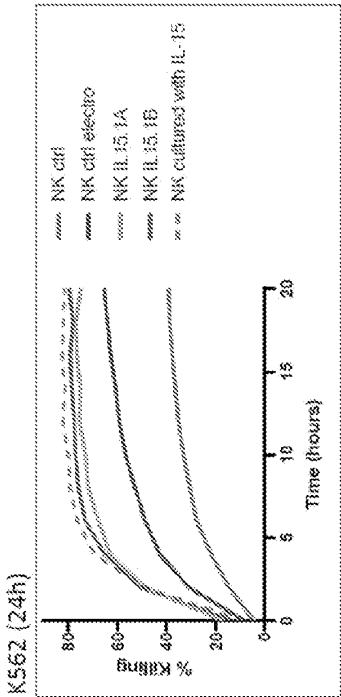


FIG. 9B

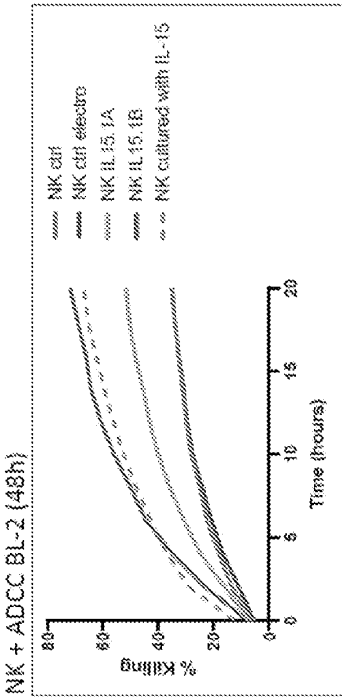


FIG. 9C

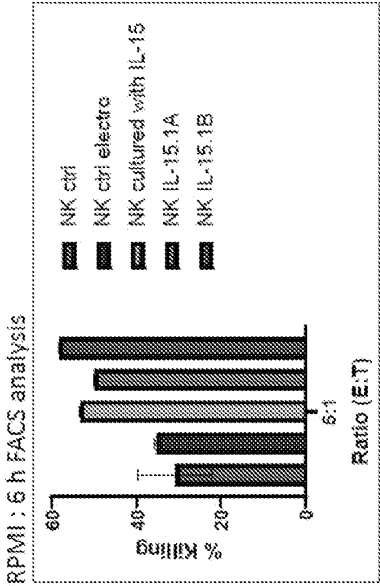
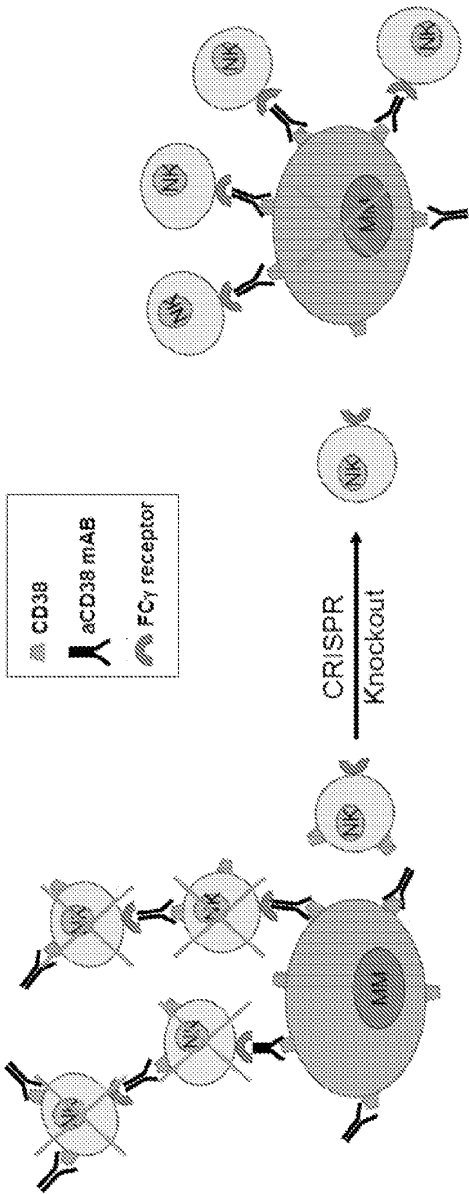


FIG. 10



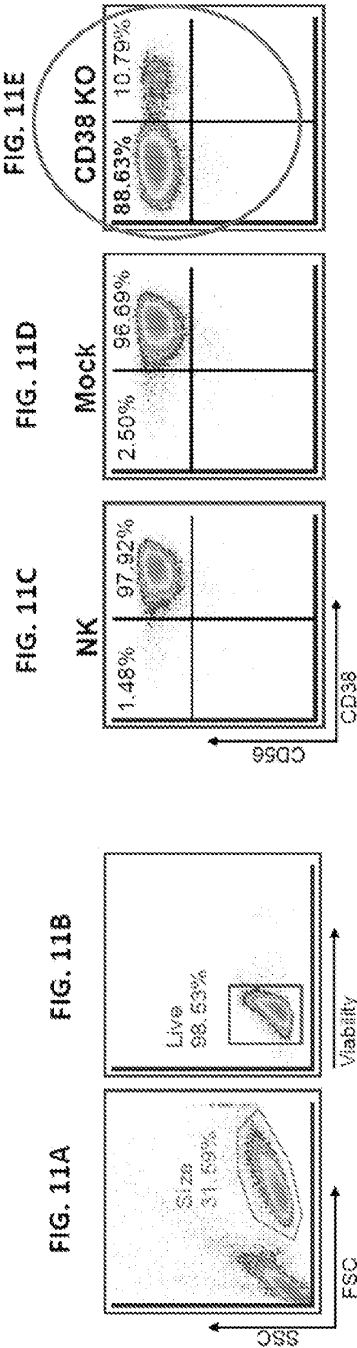


FIG. 11F

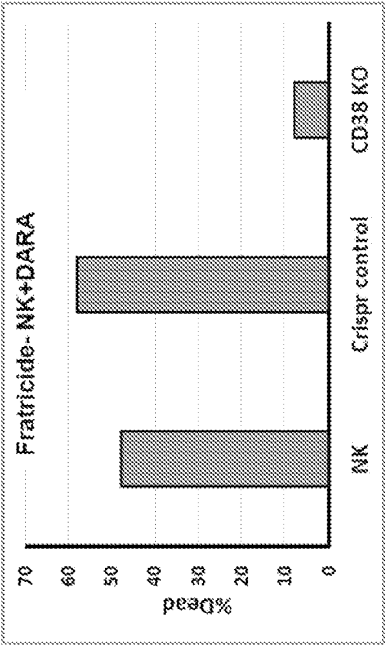


FIG. 11H

NK-CD38 KO

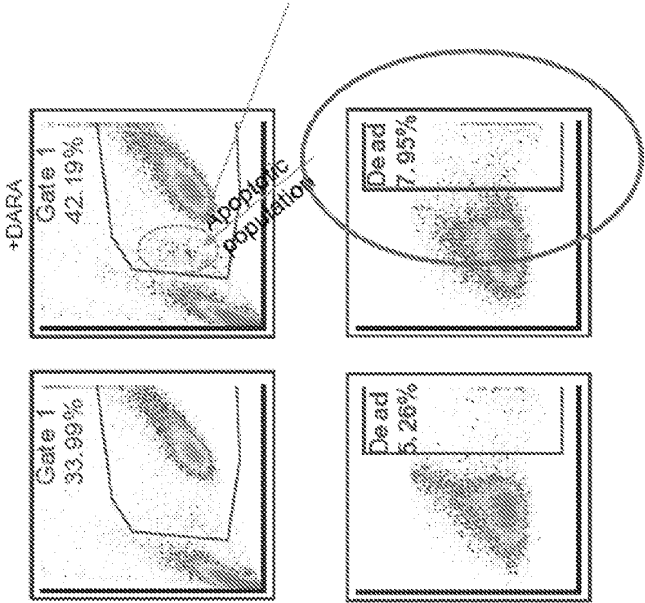


FIG. 11G

NK

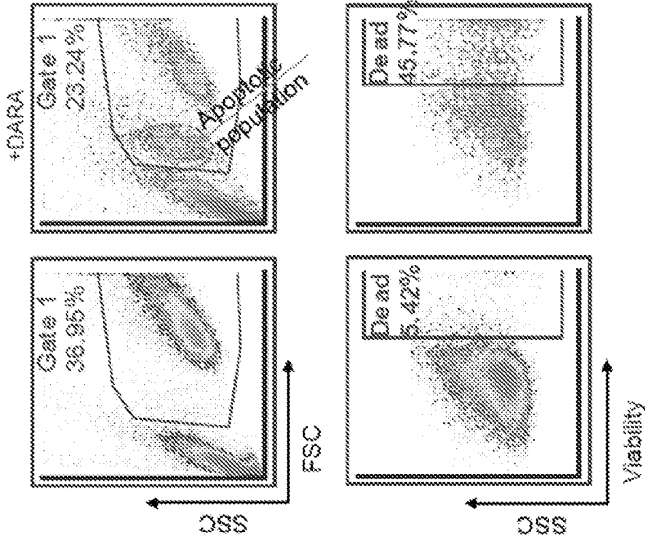


FIG. 12A

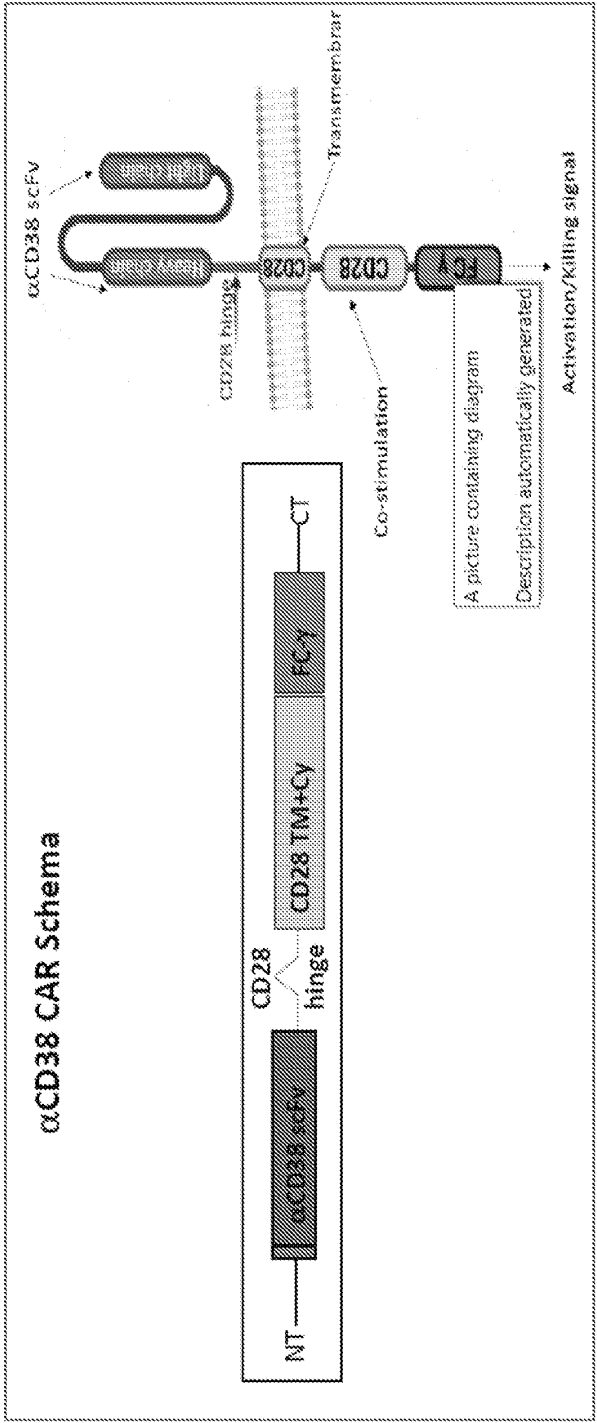


FIG. 12B

Full Length Sequence of anti-CD38 CAR:
CD28 hinge+Transmembrane+cytoplasmic seq: NCBI Reference Sequence- NM_006139.4
ATTGAAGTTATGTATCCTCCTTACCTAGACAATGAGAGCAATGGAAACATTATCCATGTGAAAGGGGAACACC
TTTGTCCAAGTCCCTATTTCCTGGACCTTCTAAGCCCTTTTGGGTGCTGGTGGTGGGAGTCCCTGGCTTGCT
ATAGCTTGCTAGTAACAGTGGCCTTATTATTTCTGGGTGAGGAGTAAGAGGAGCAGGCTCCTGACACAGTGACTACA
TGAACATGACTCCCGCGCGCCCGGGCCCAACCCGCAAGCATTACCAAGCCTATGCCCCACACCGGACTTCGCAGCCT
ATCGCTCG

SEQ ID NO: 31

FIG. 13

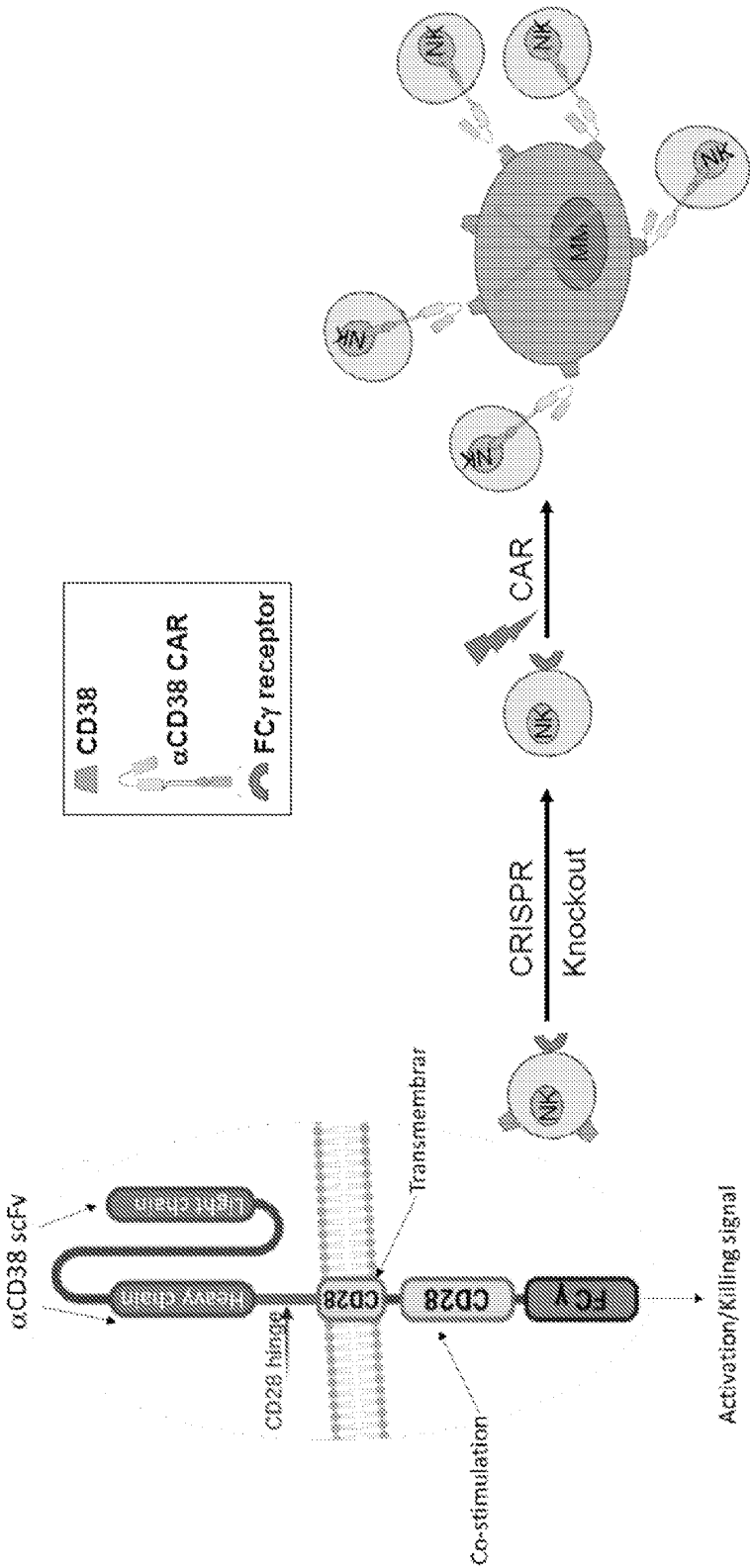


FIG. 14

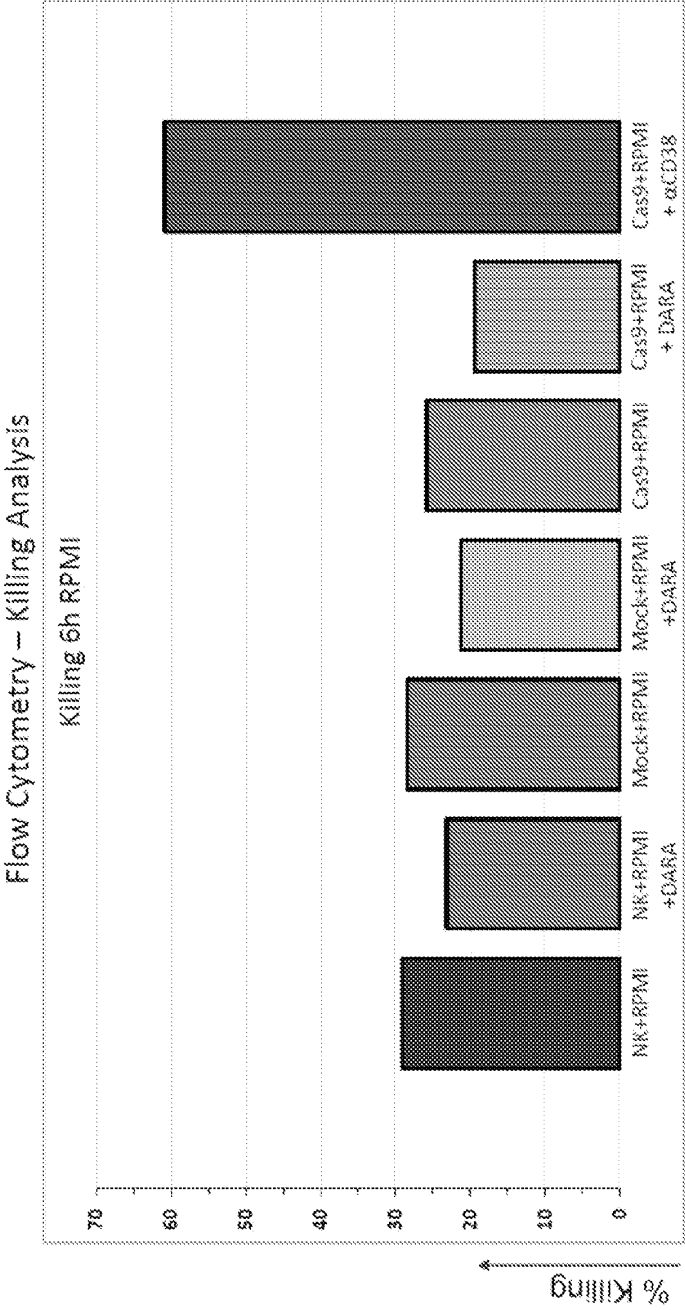


FIG. 15

Schematic representation of the anti-HER CAR genetic constructs

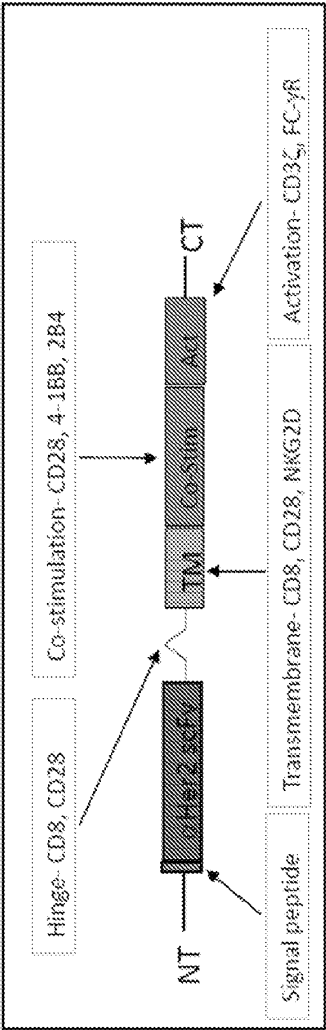


FIG. 16A

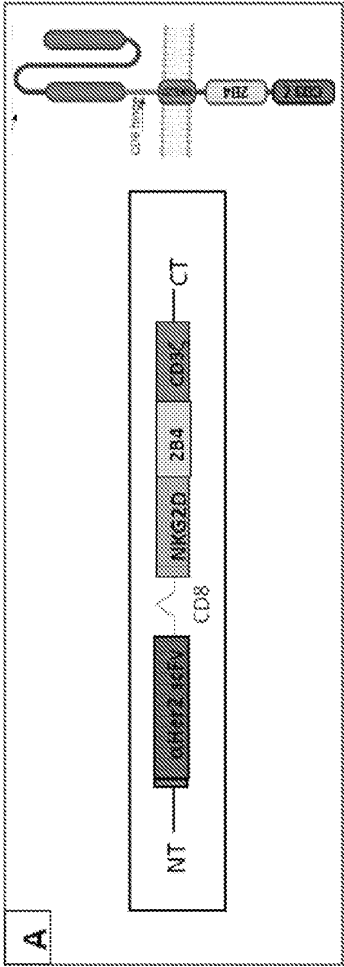


FIG. 16B

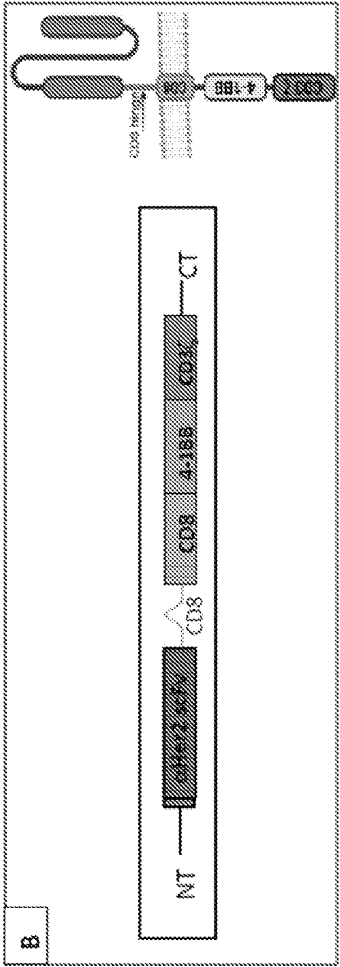


FIG. 16C

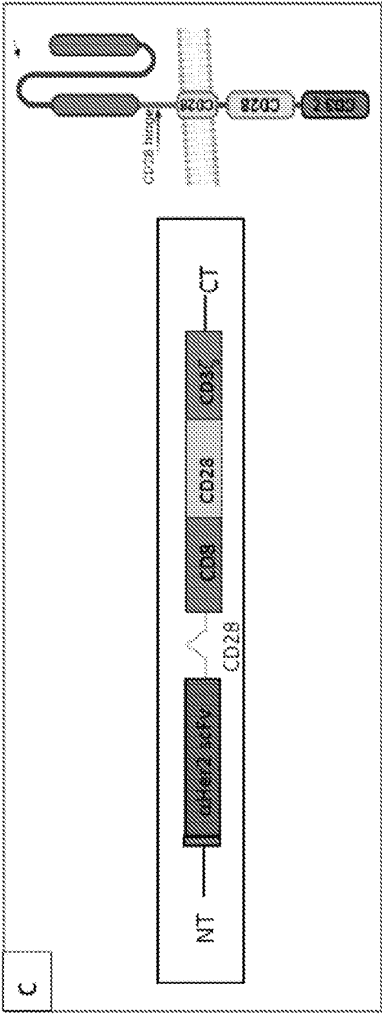
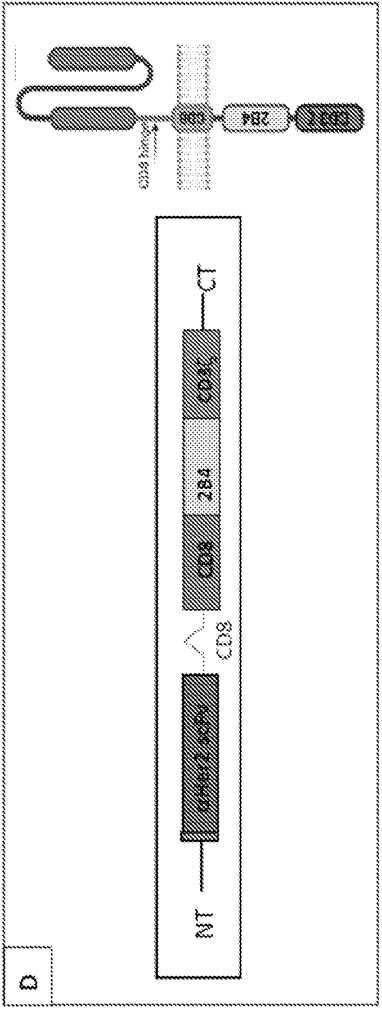
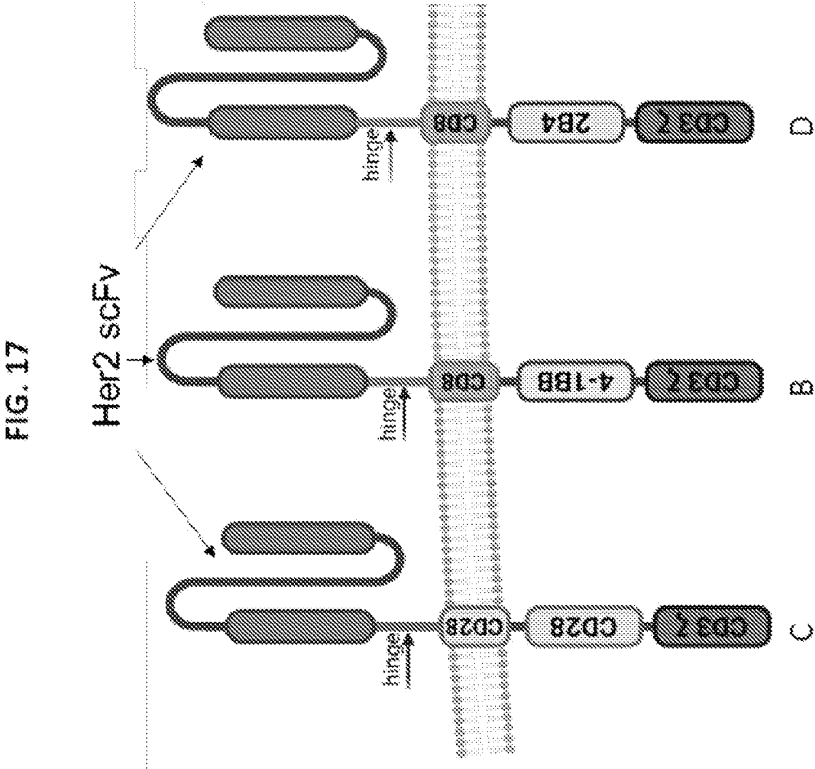


FIG. 16D





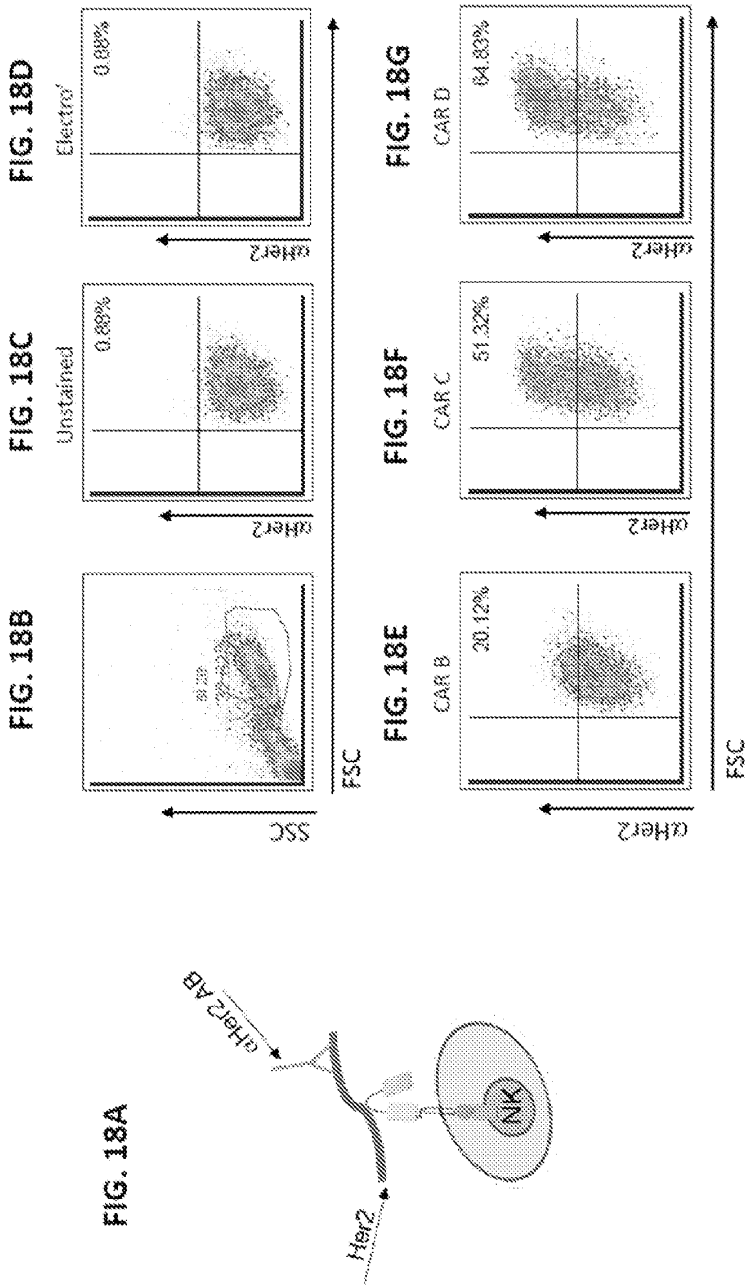
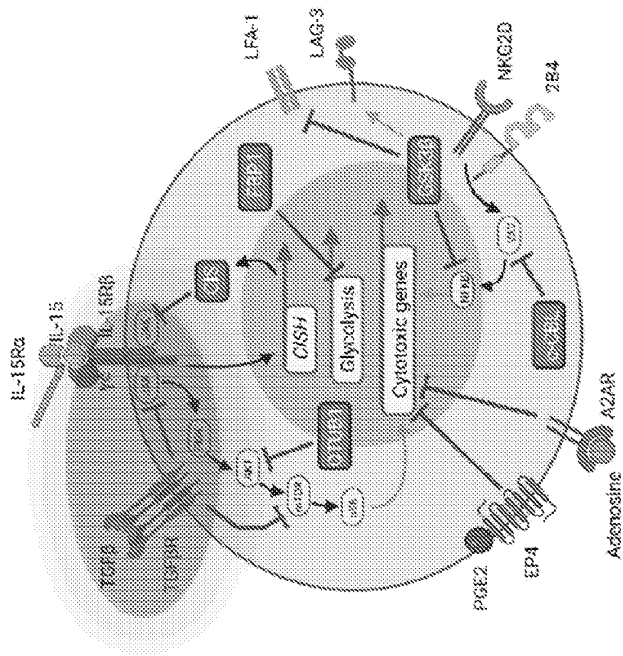


FIG. 19



Incorporated from Riggan et al., *Clinical & Translational Immunology* (2021) e1238

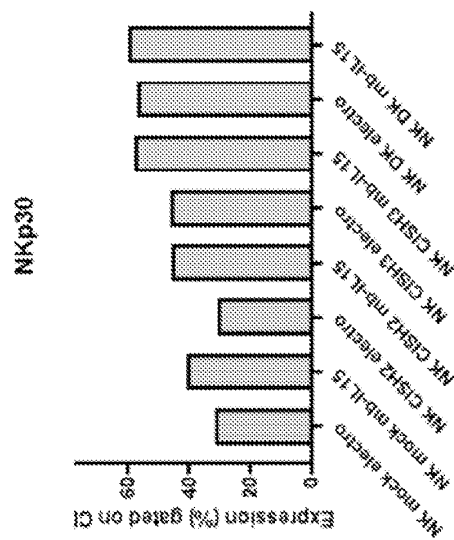


FIG. 20

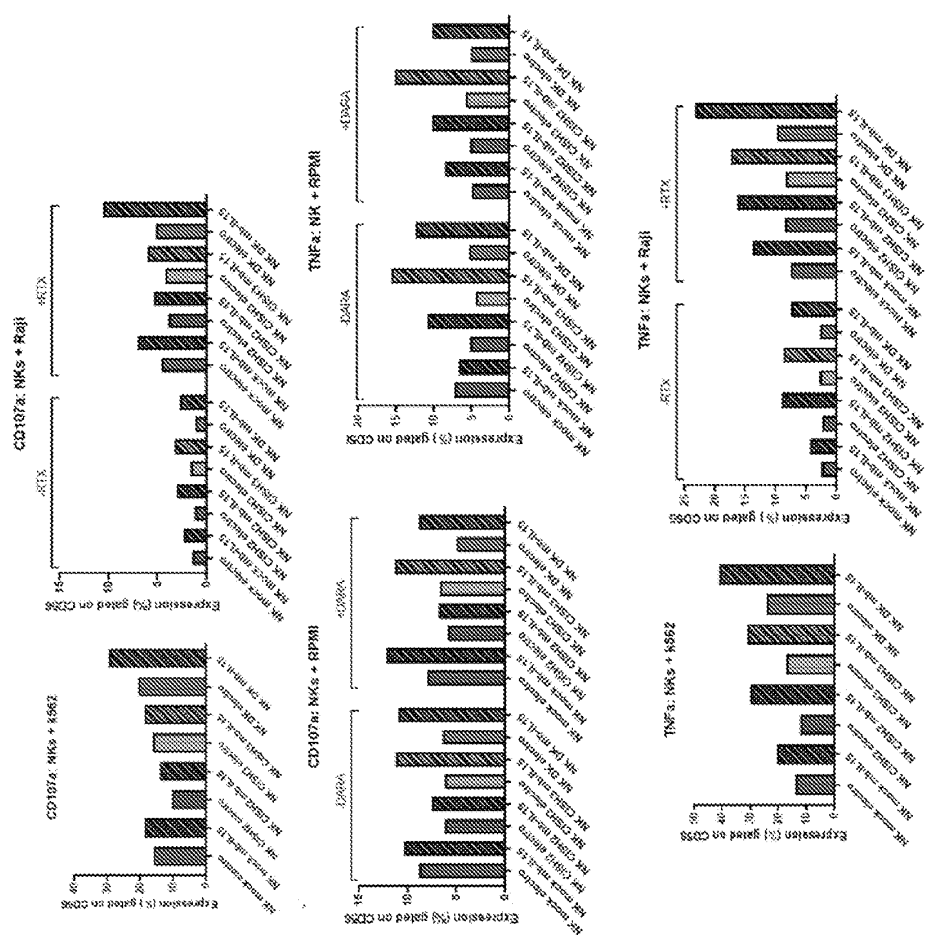


FIG. 21

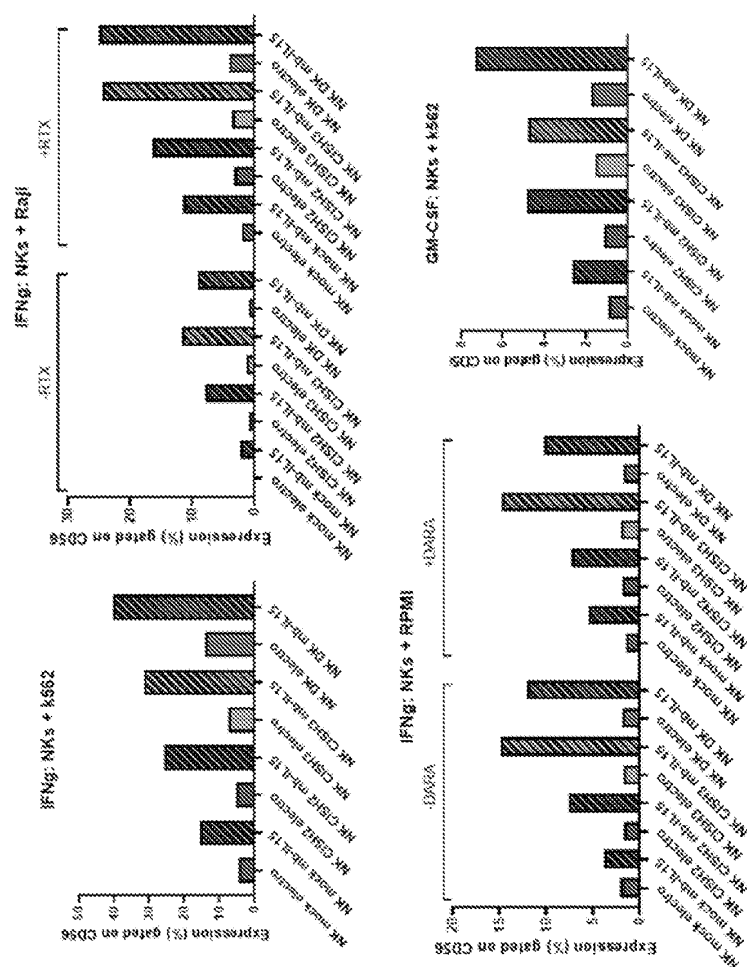


FIG. 22

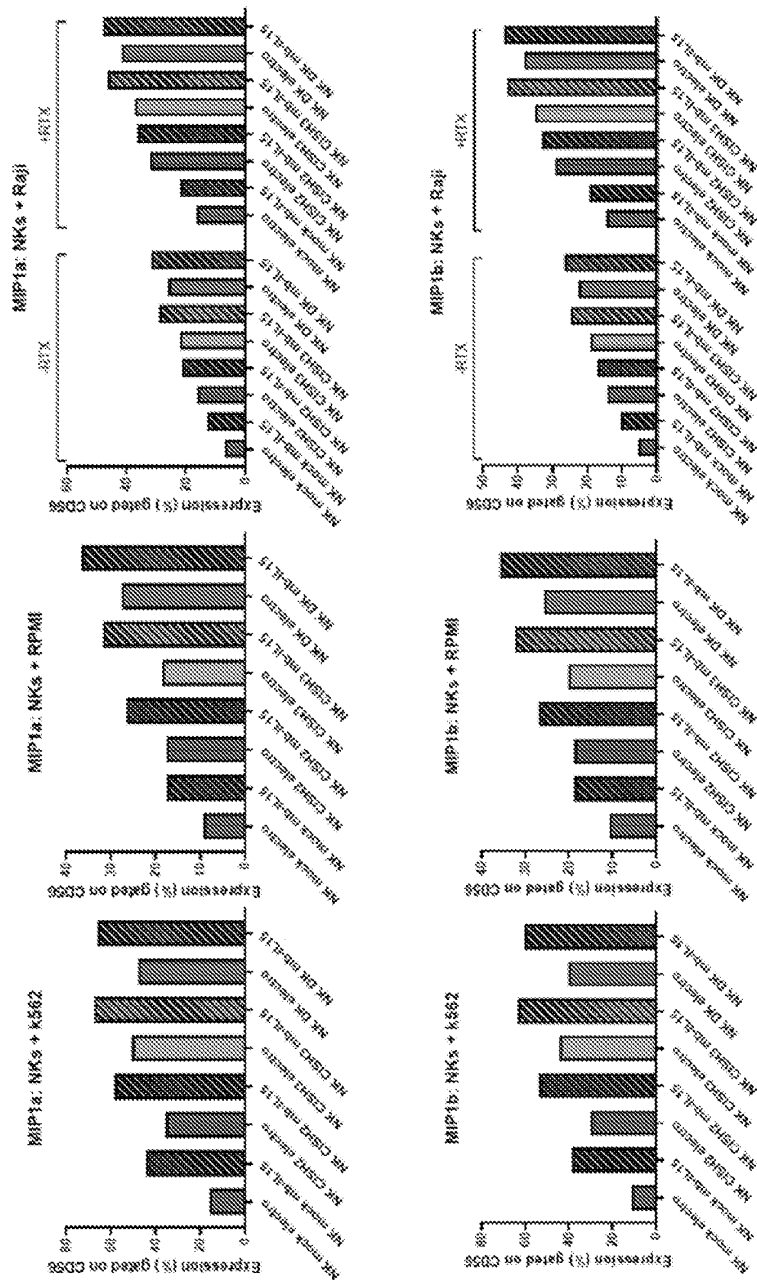


FIG. 23

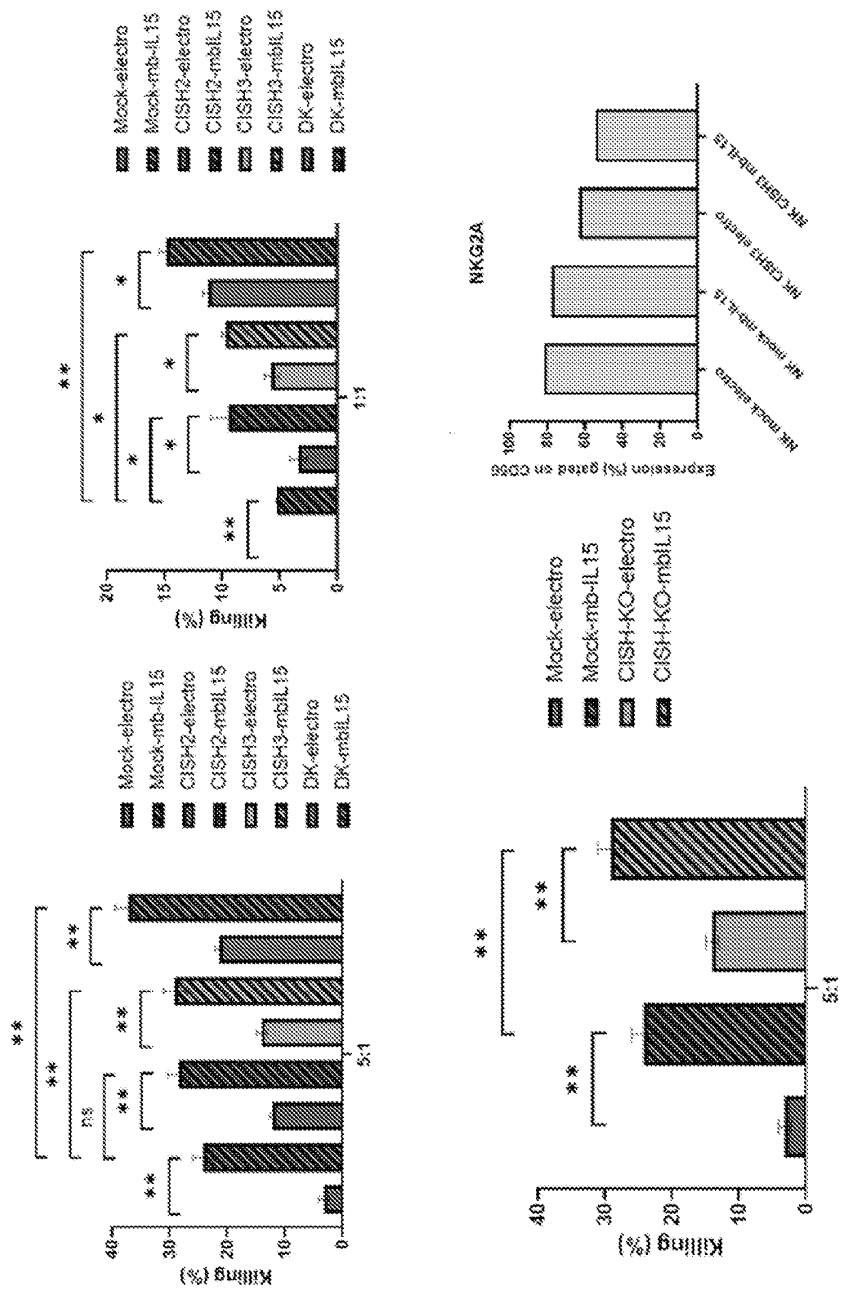


FIG. 24

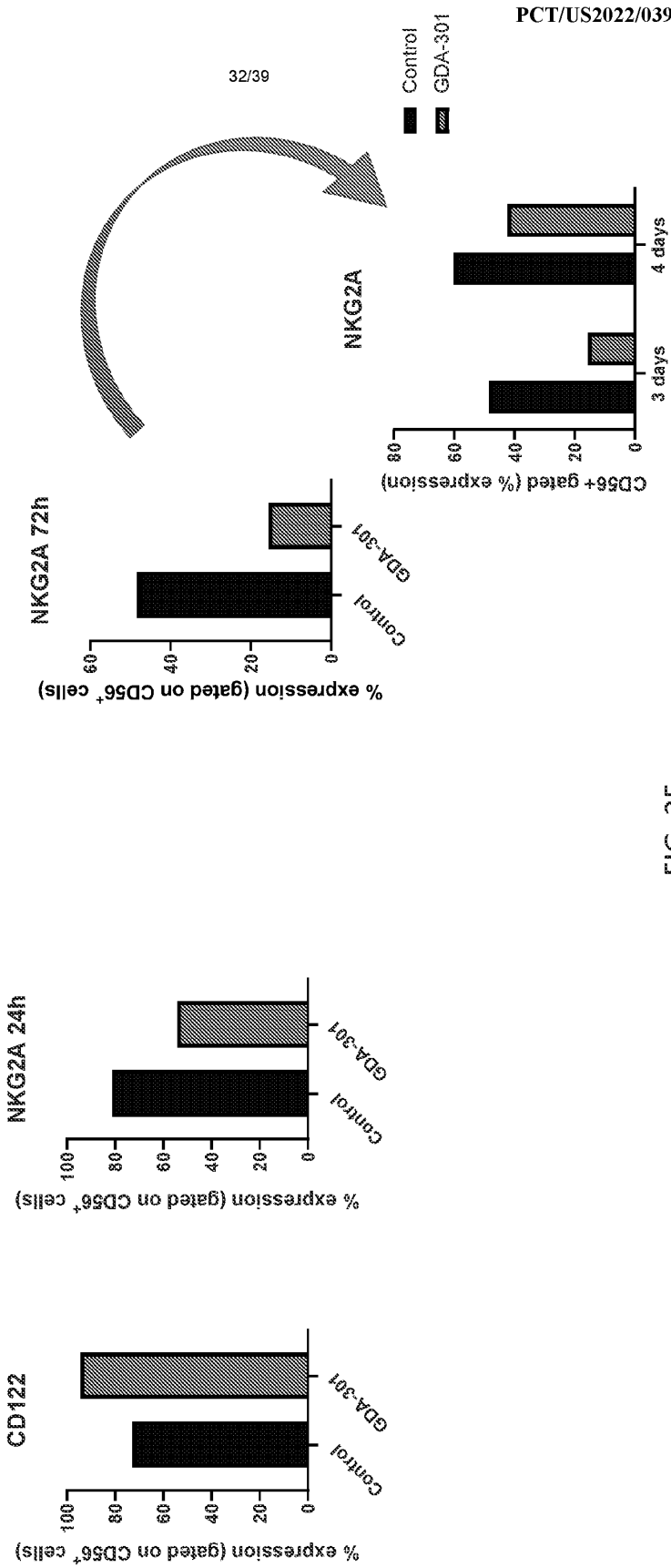


FIG. 25

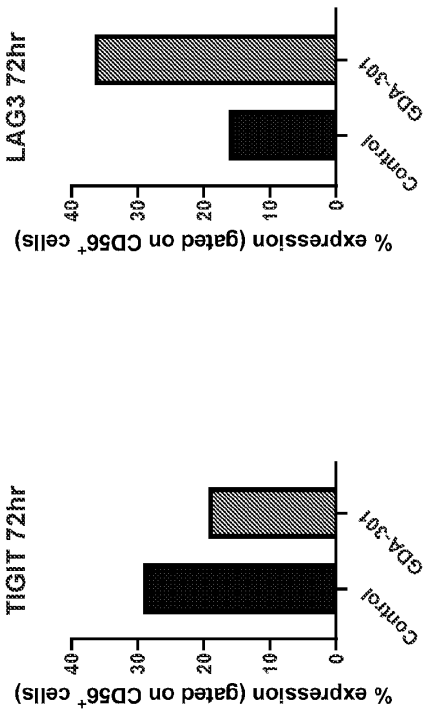


FIG. 26

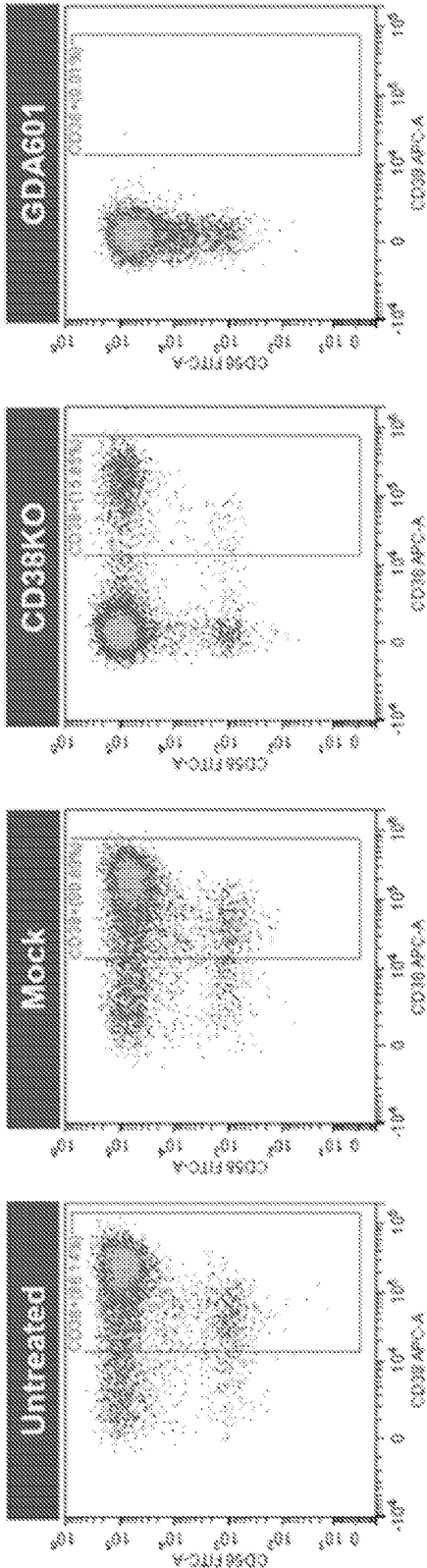


FIG. 27

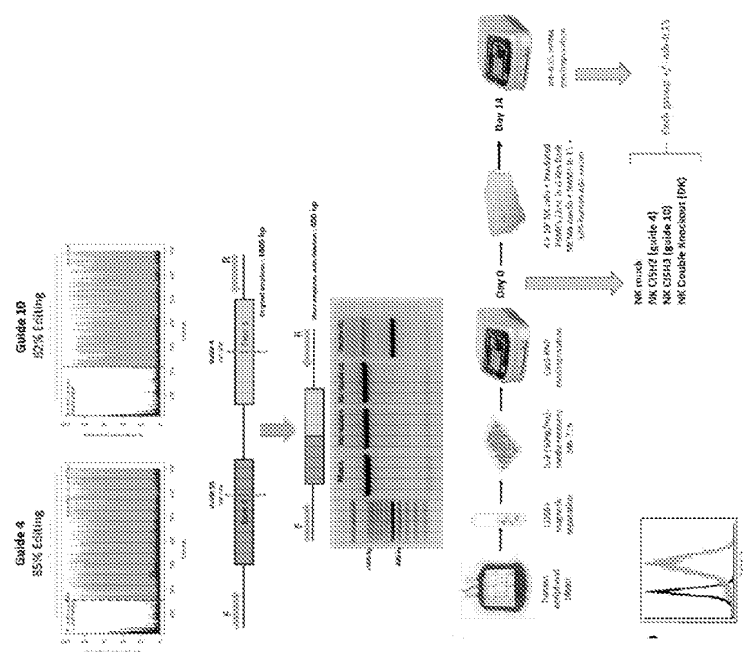


FIG. 28

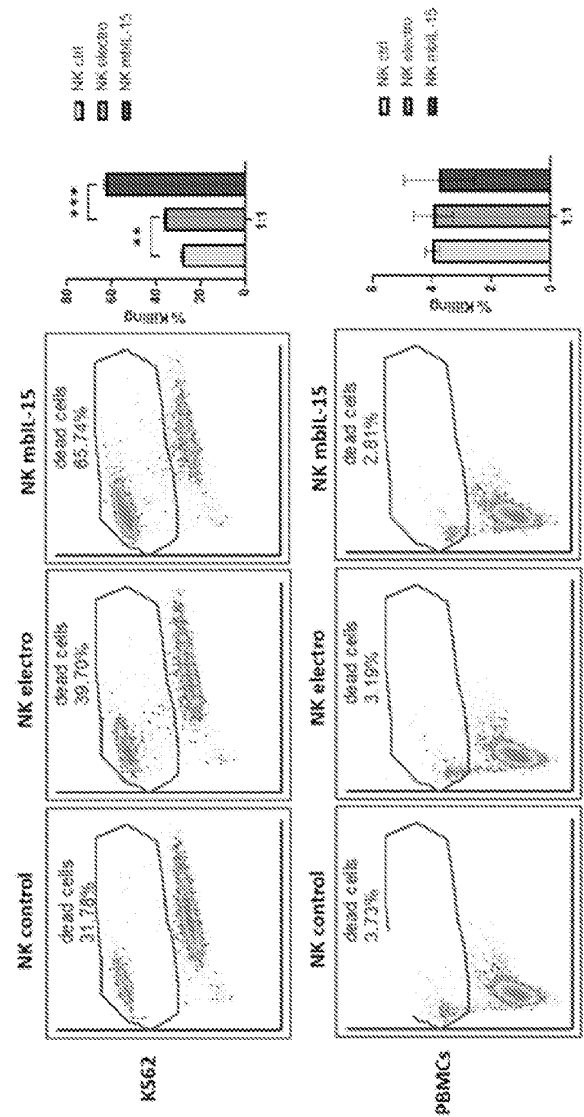


FIG. 29

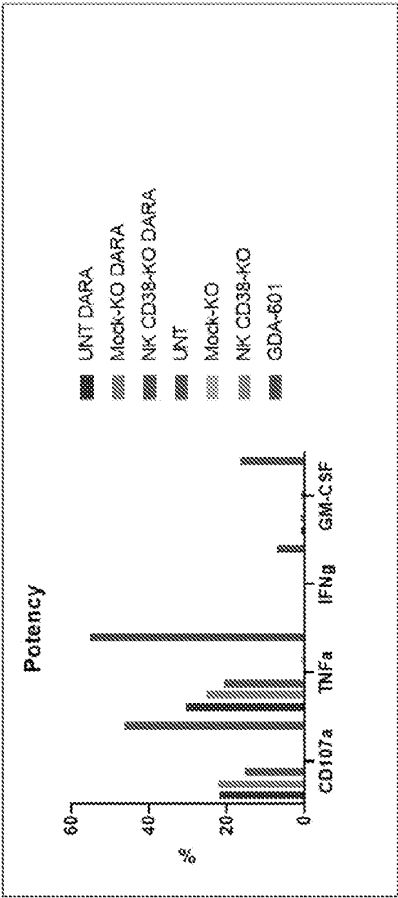


FIG. 30

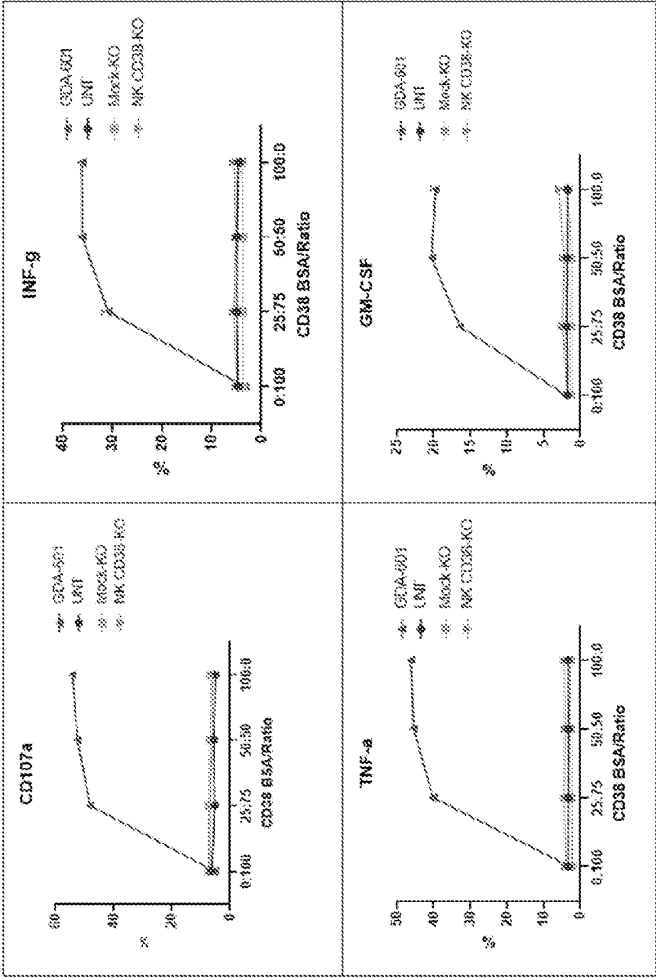


FIG. 31

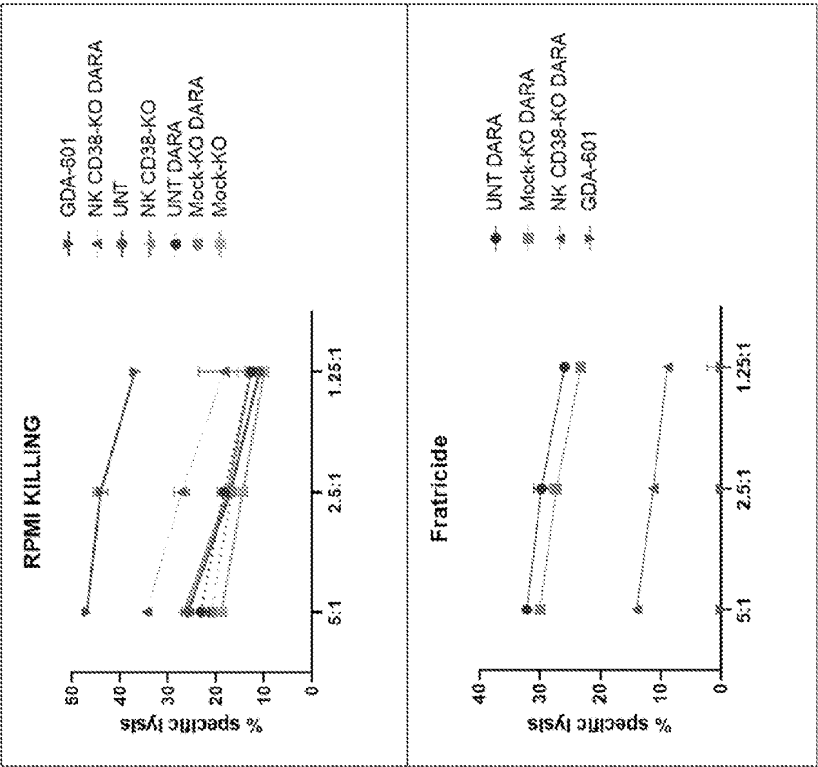


FIG. 32