

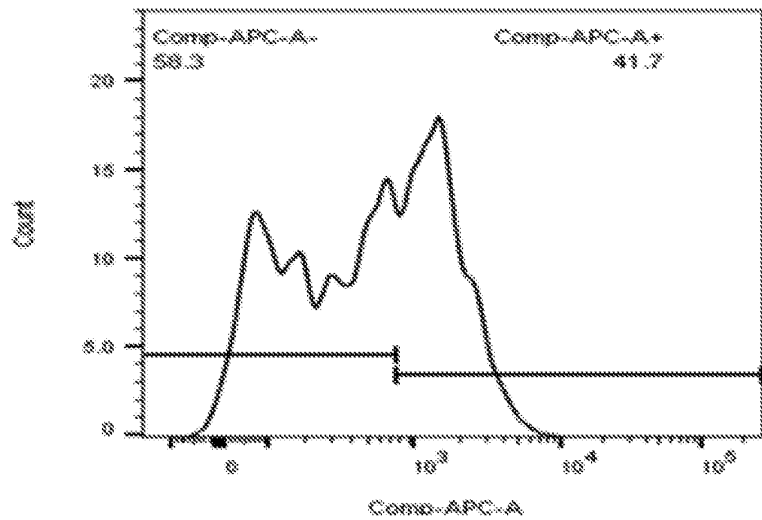


FIG. 1

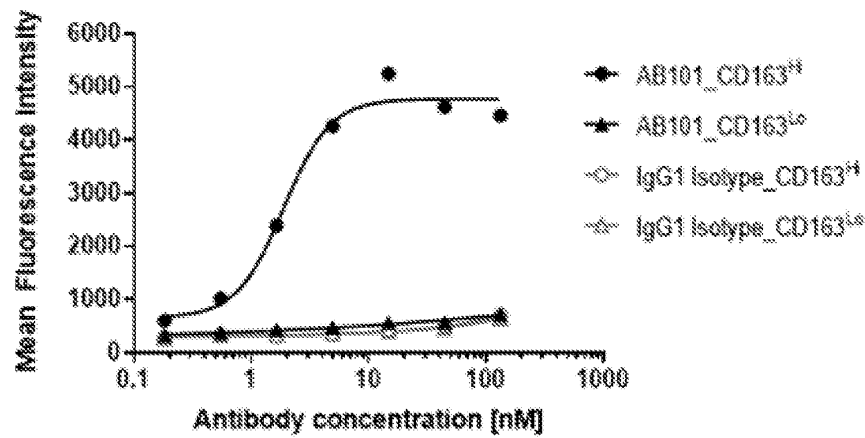


FIG. 2

FIG. 3

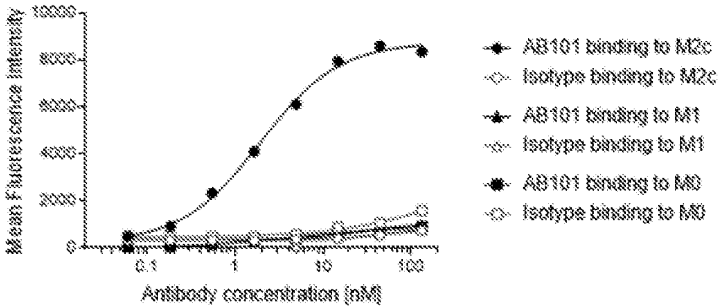


FIG. 4

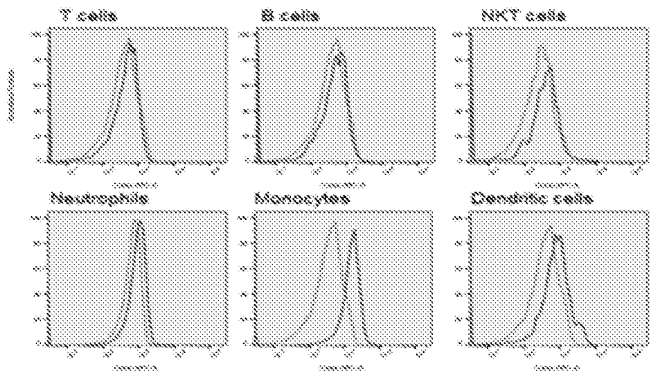


FIG. 5

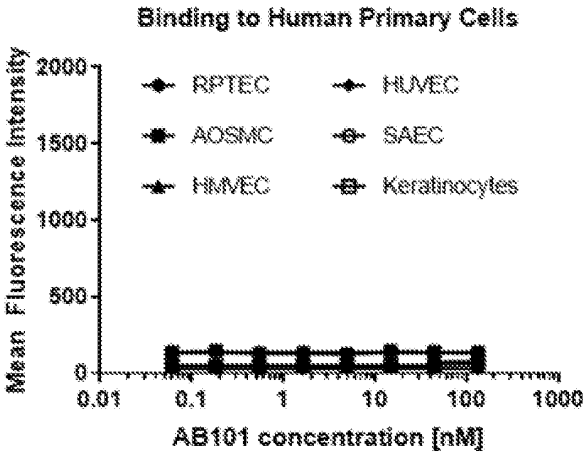


FIG. 6A

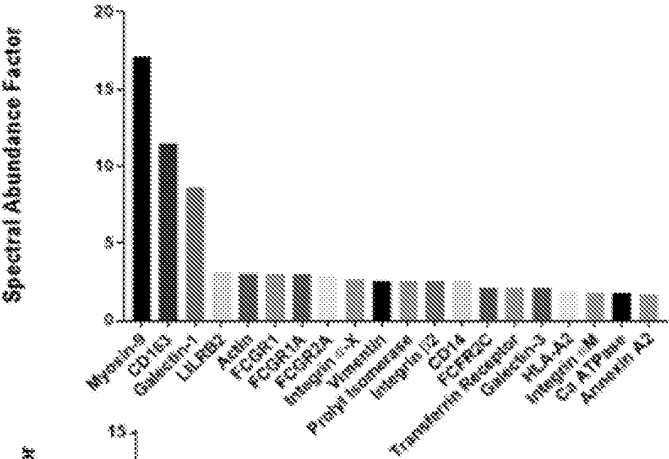


FIG. 6B

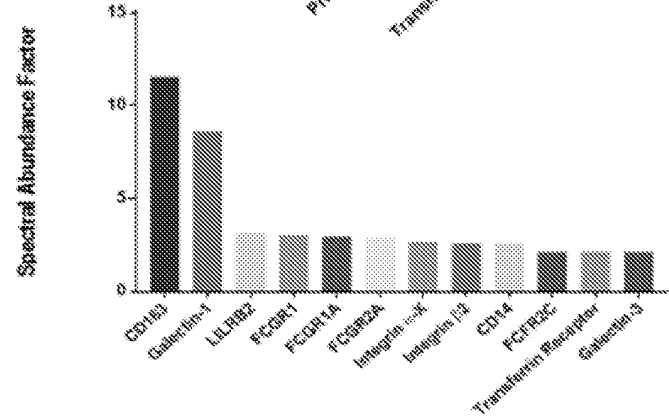


FIG. 6C

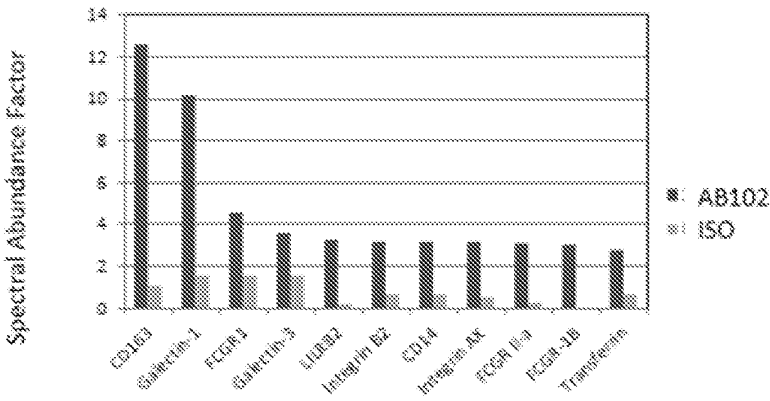


FIG. 7

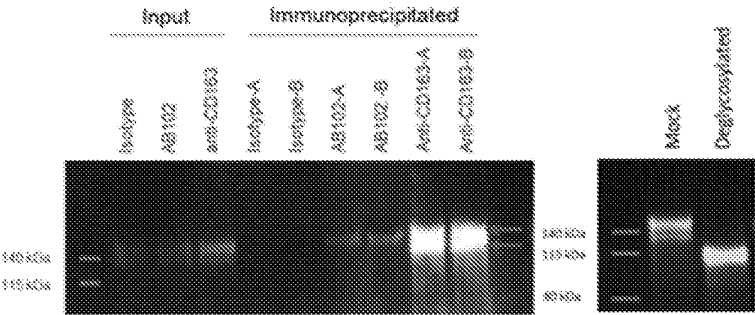


FIG. 8

Binding to human recombinant CD163

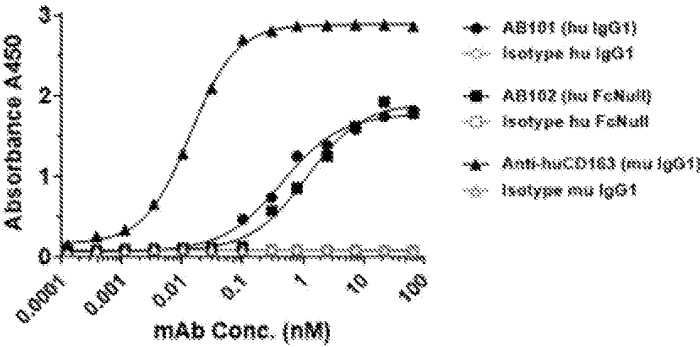
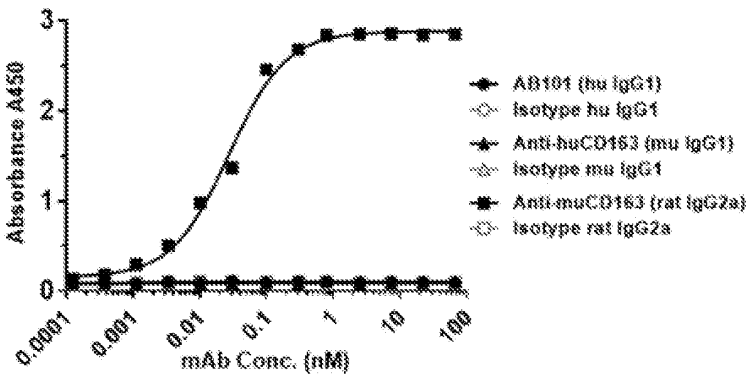


FIG. 9

Binding to murine recombinant CD163



AB101 binding to anti-CD163 pAb treated M2c

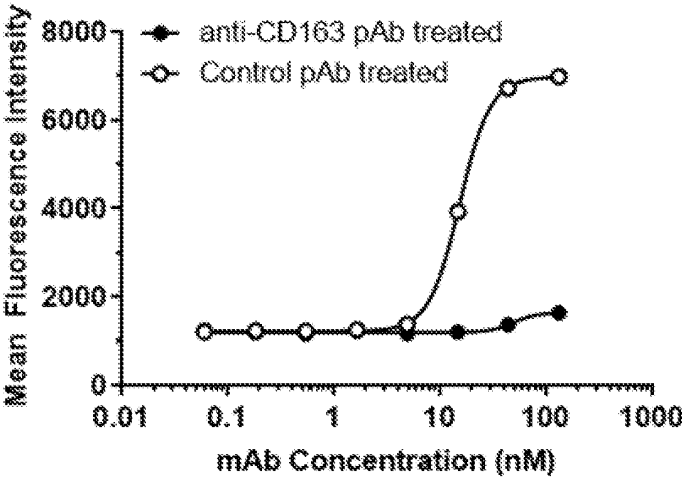


FIG. 10

Anti-huCD163 mAb binding to anti-CD163 pAb treated M2c

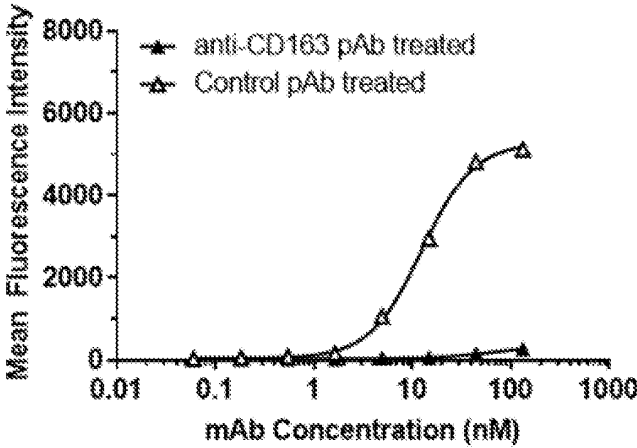


FIG. 11

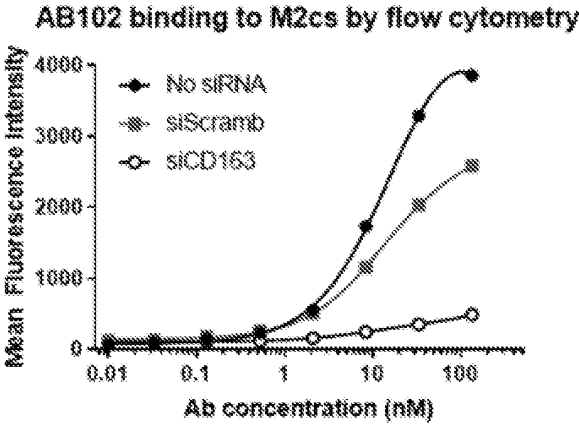


FIG. 12

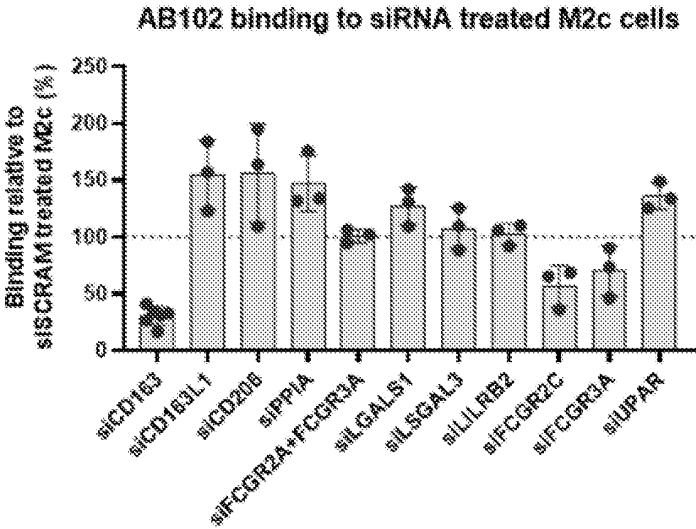


FIG. 13

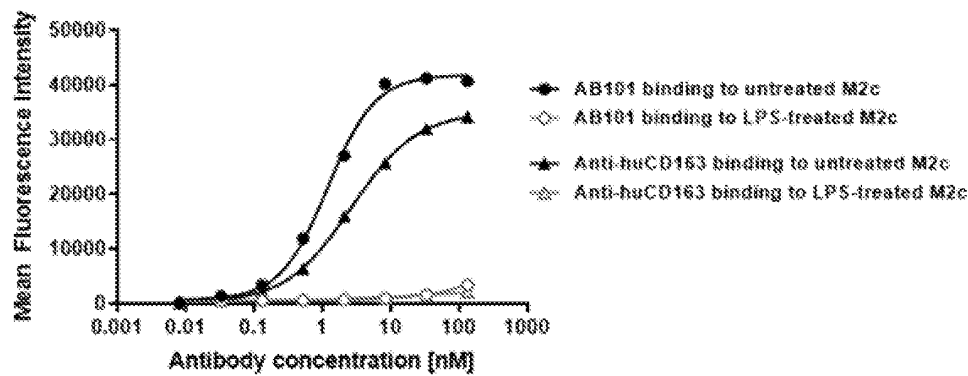


FIG. 14

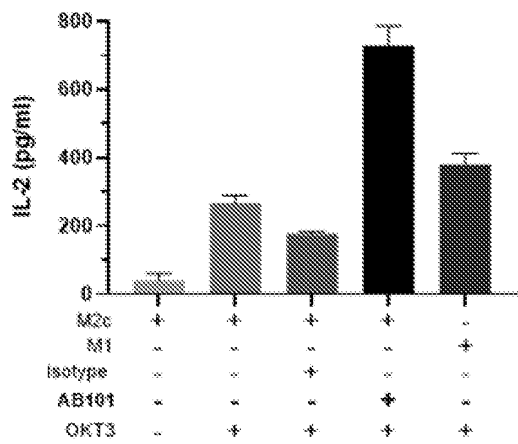


FIG. 15

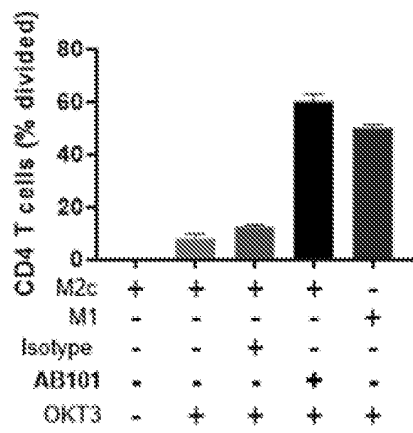


FIG. 16

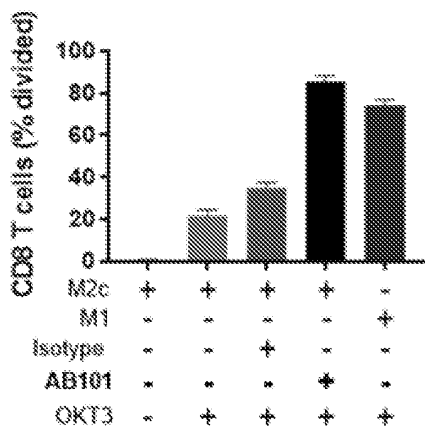


FIG. 17

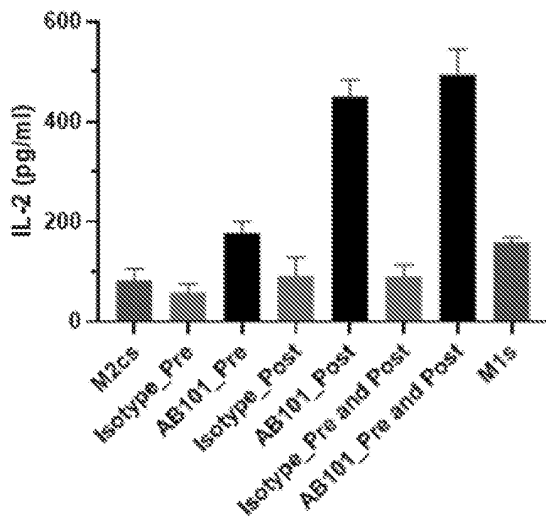


FIG. 18

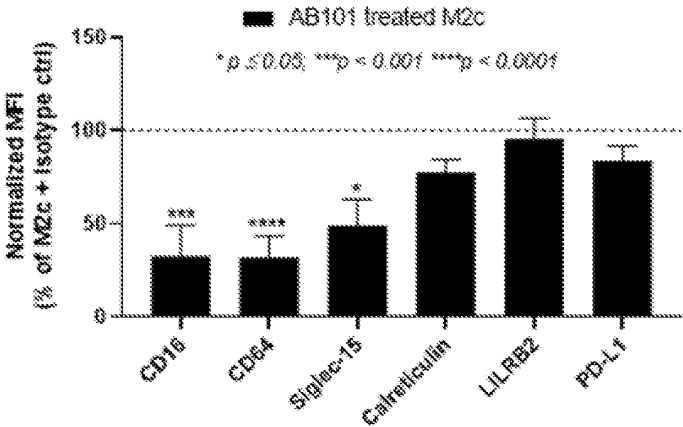


FIG. 19

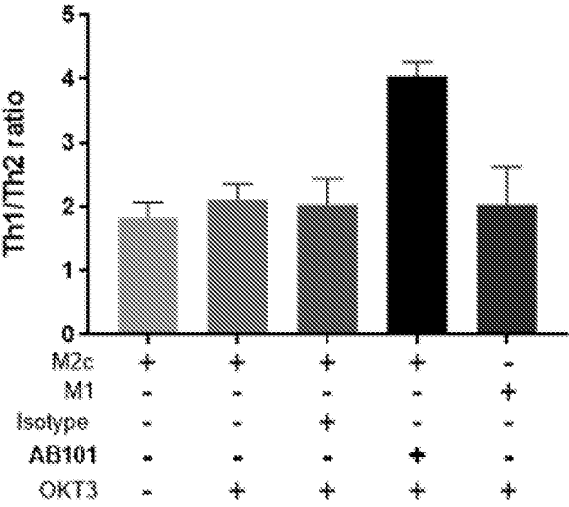


FIG. 20

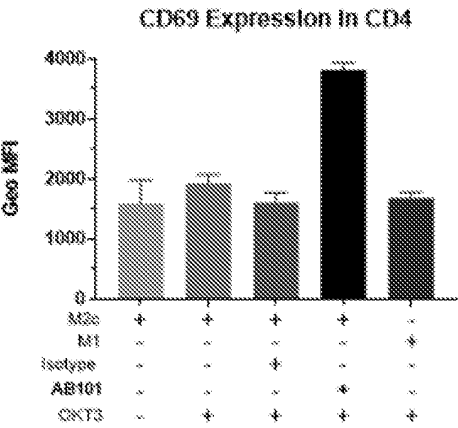


FIG. 21

FIG. 22

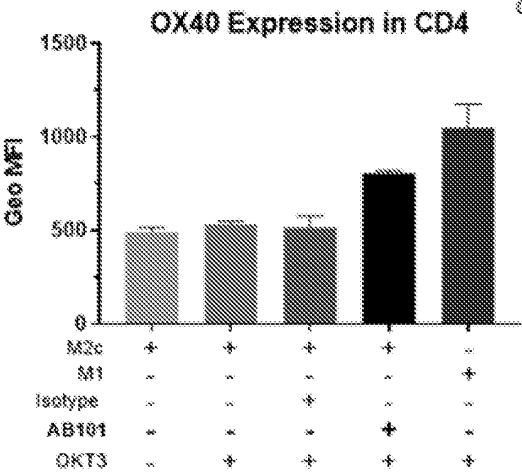
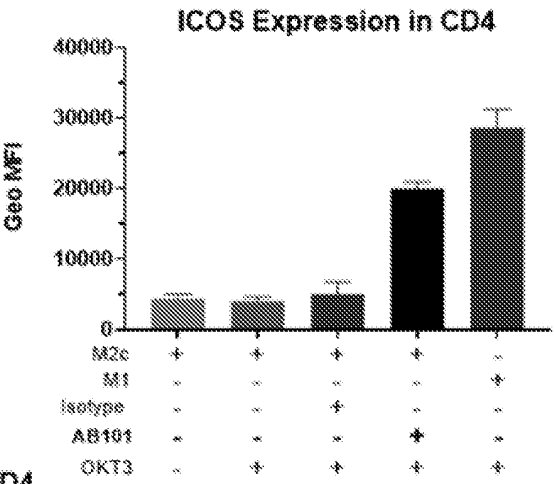


FIG. 23

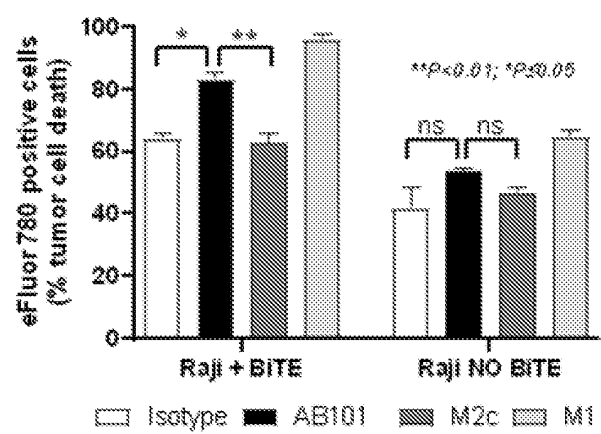


FIG. 24

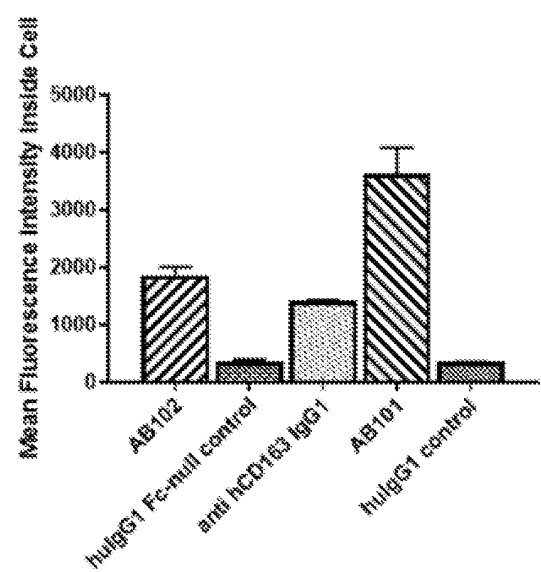


FIG. 25

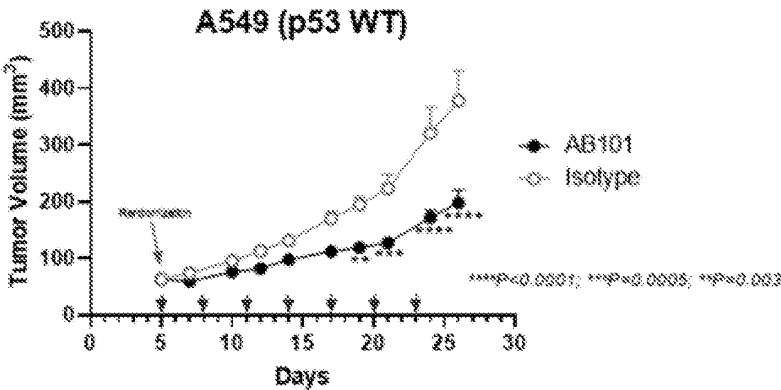


FIG. 26

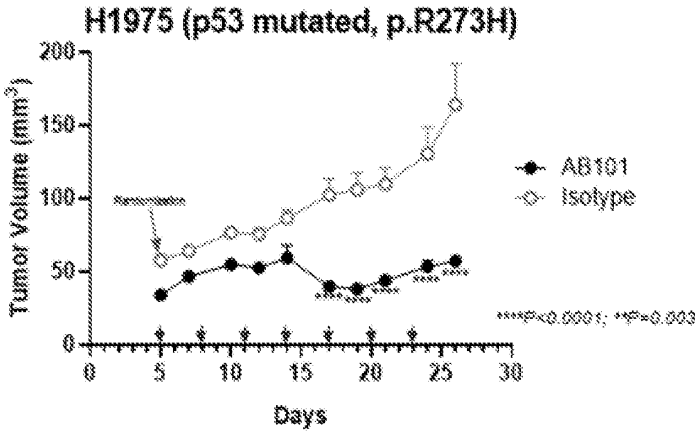


FIG. 27

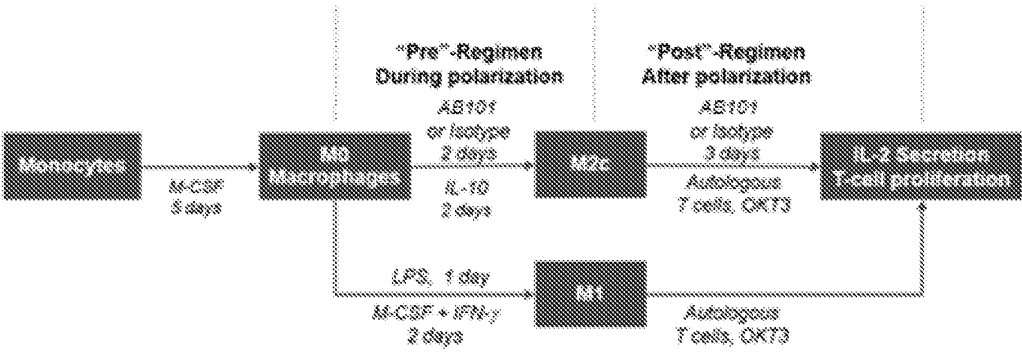


FIG. 28

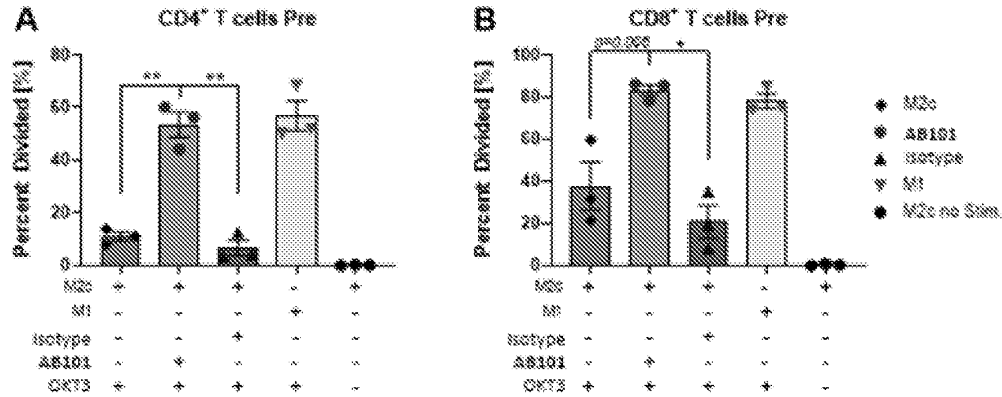


FIG. 29

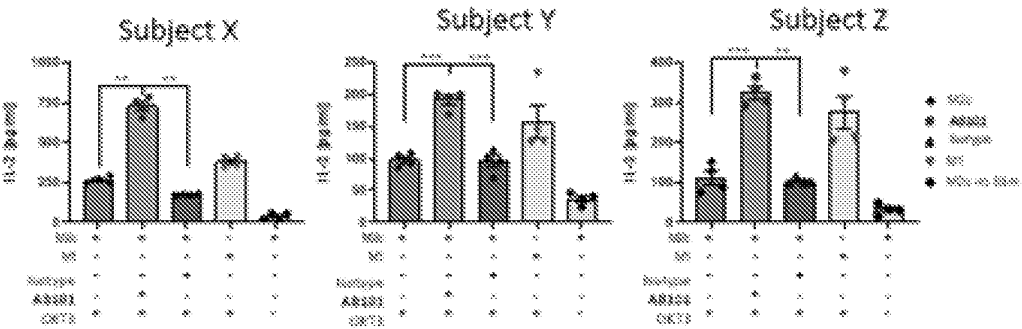


FIG. 30

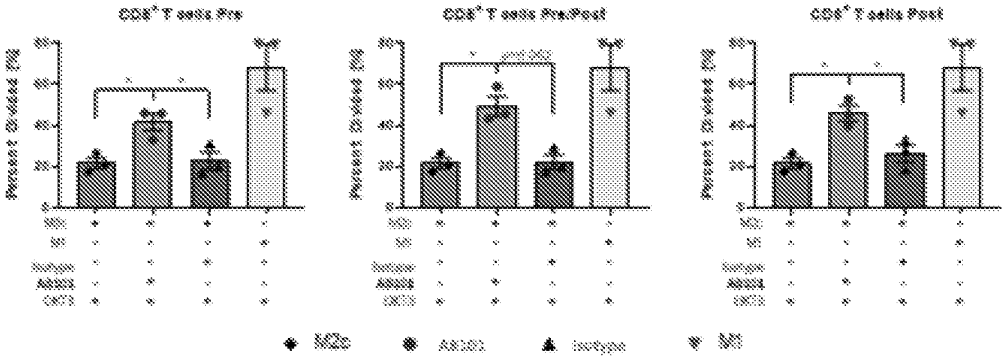


FIG. 31

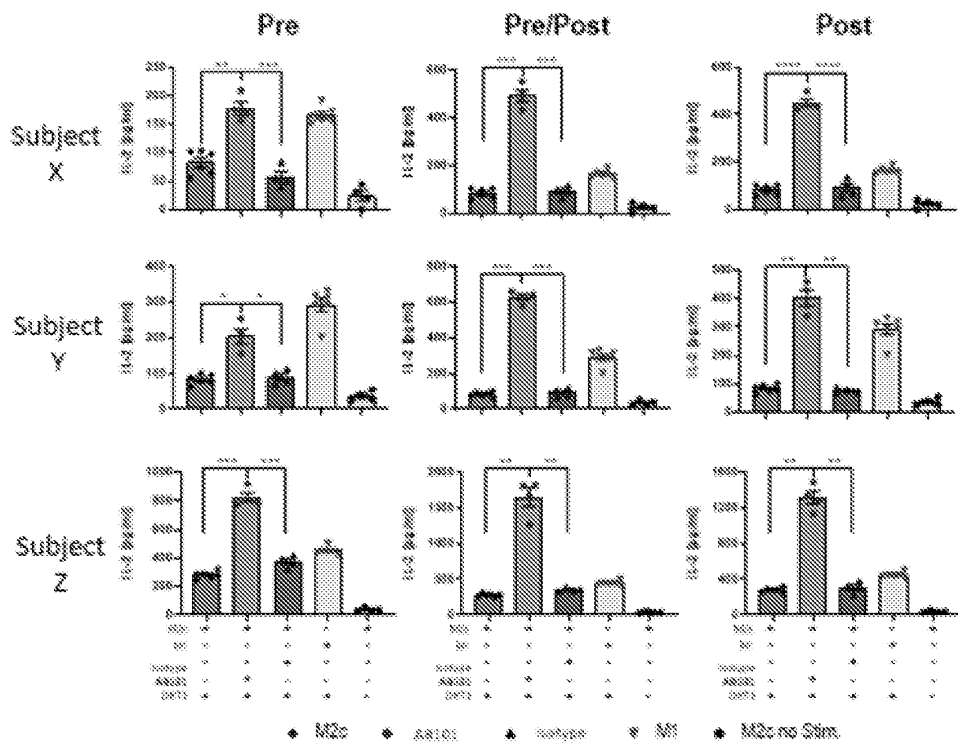


FIG. 32

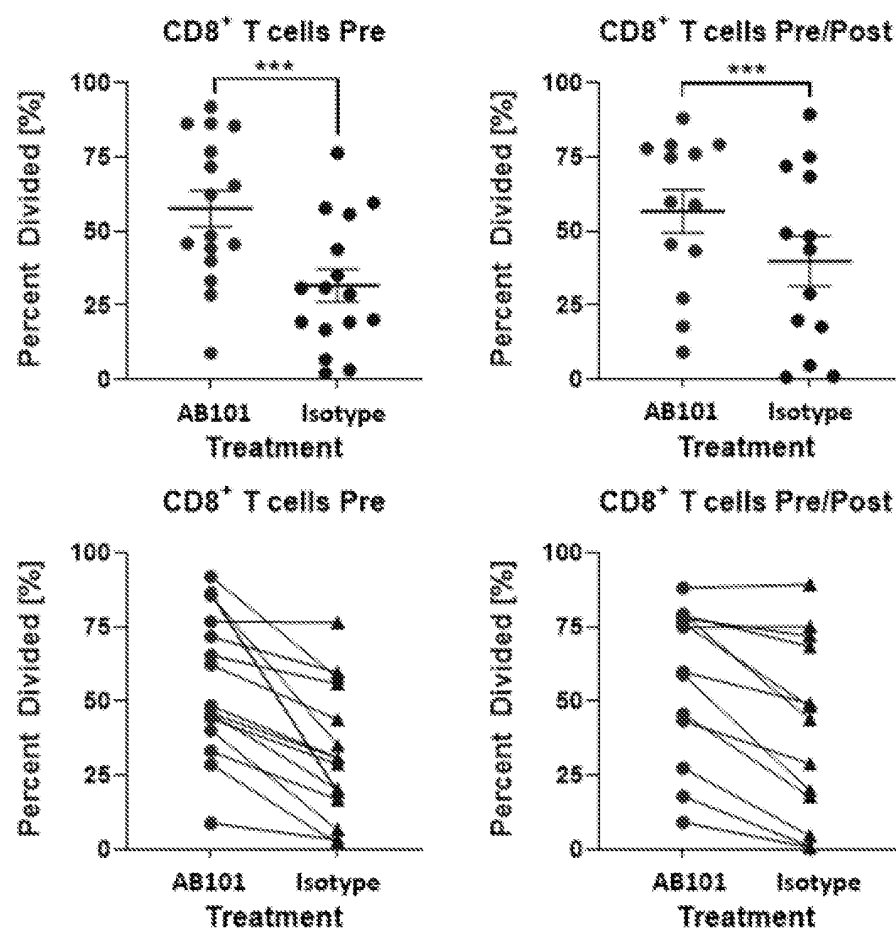


FIG. 33

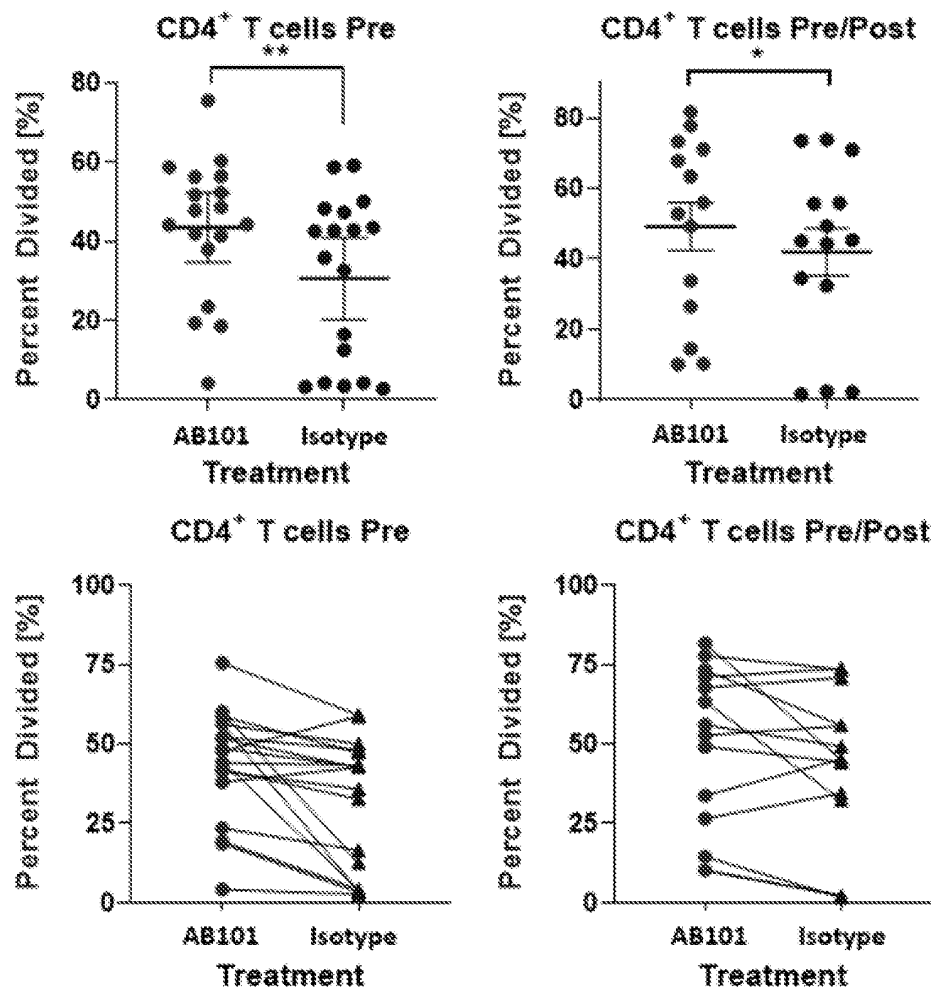


FIG. 34

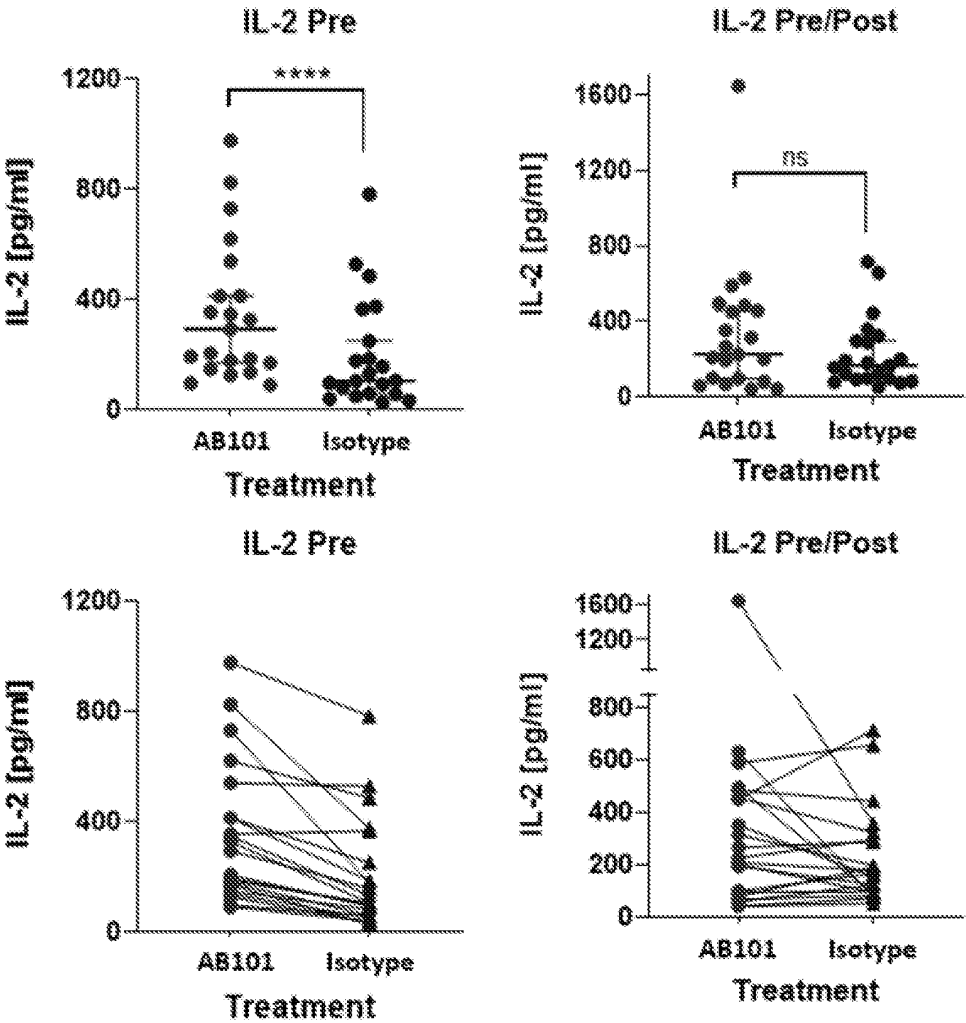


FIG. 35

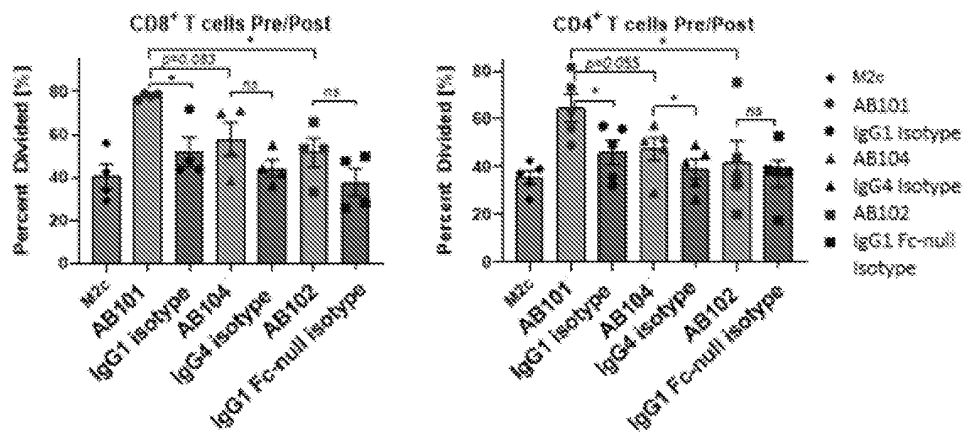


FIG. 36

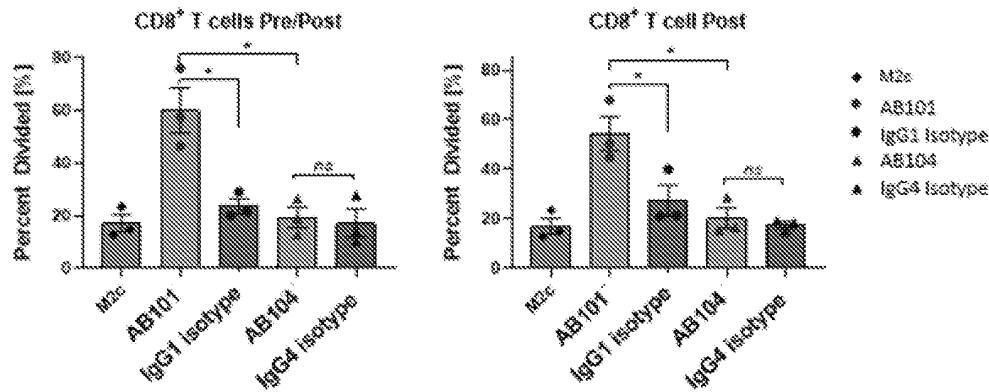


FIG. 37

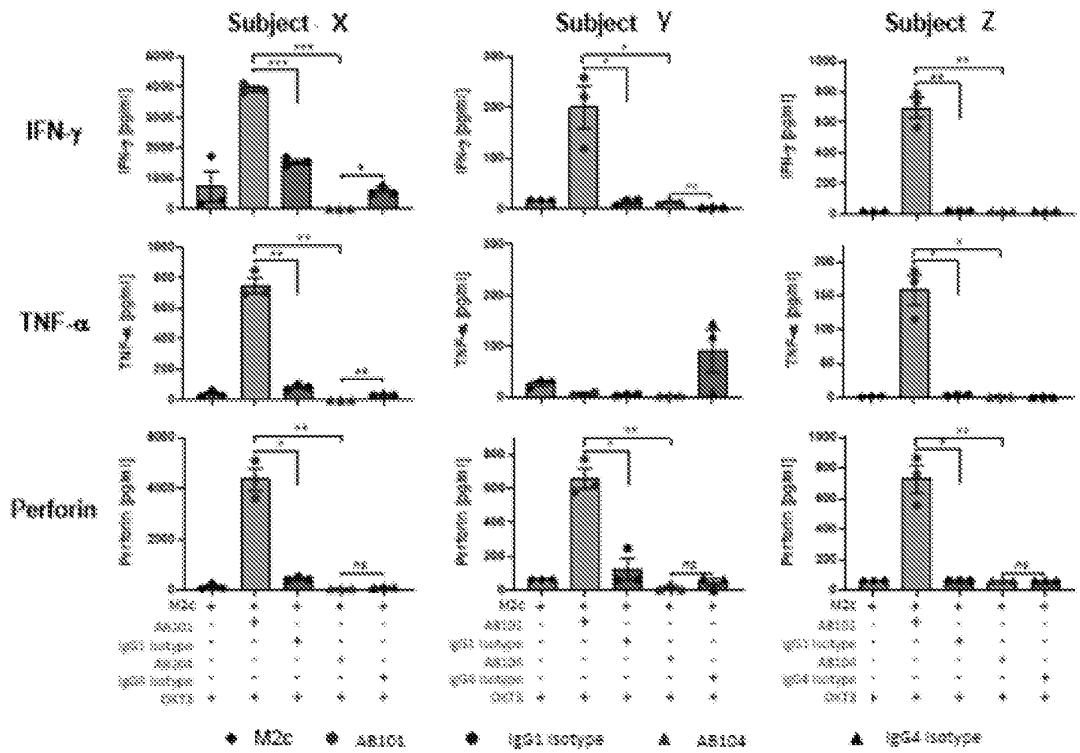


FIG. 38

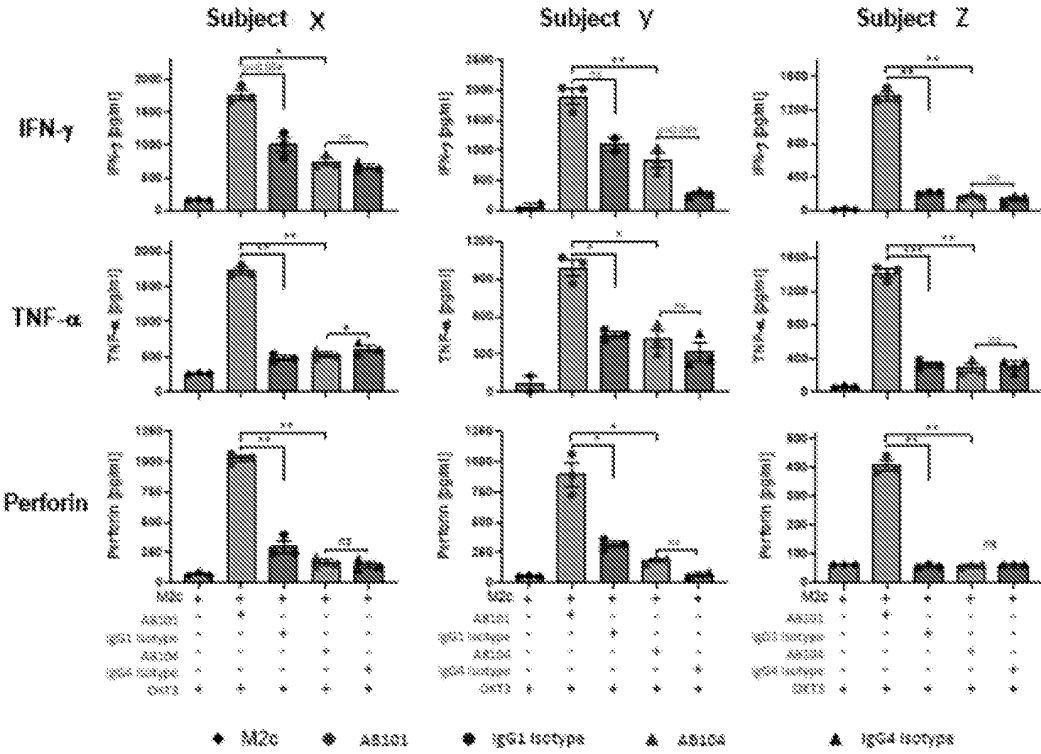


FIG. 39

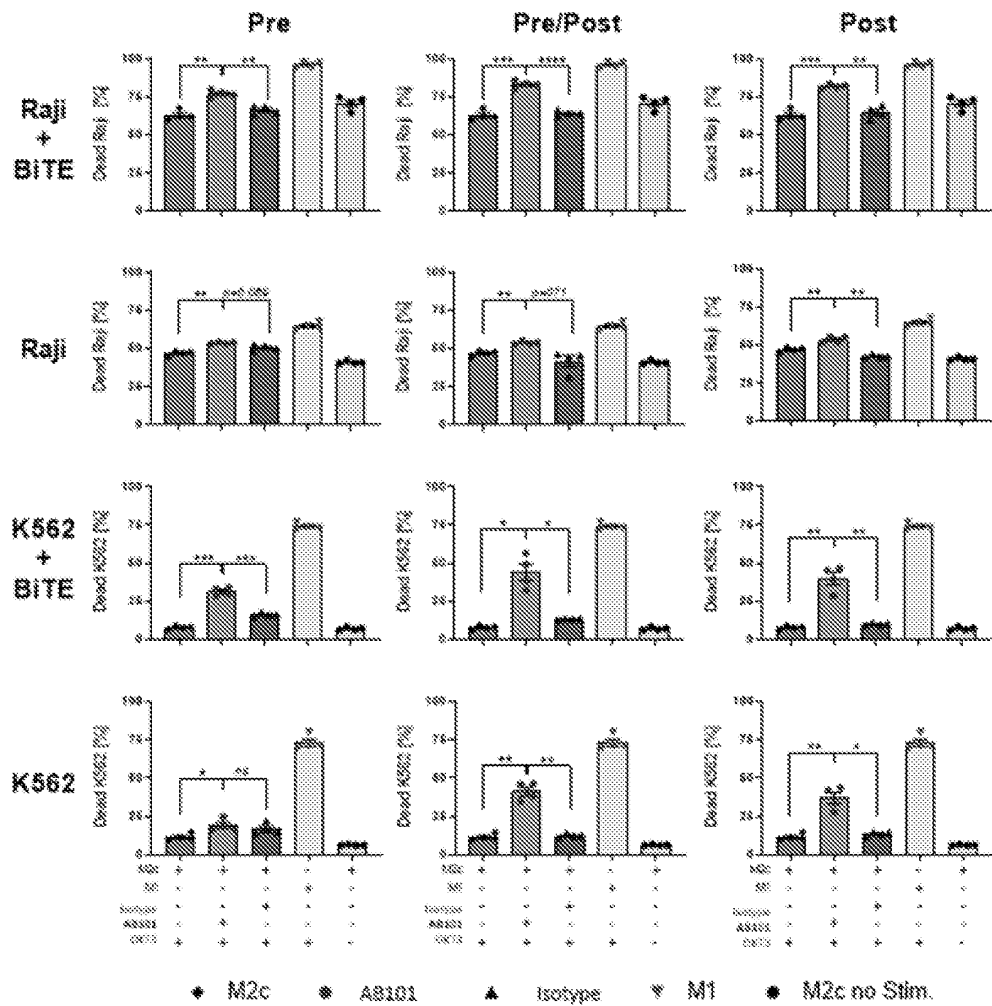


FIG. 40

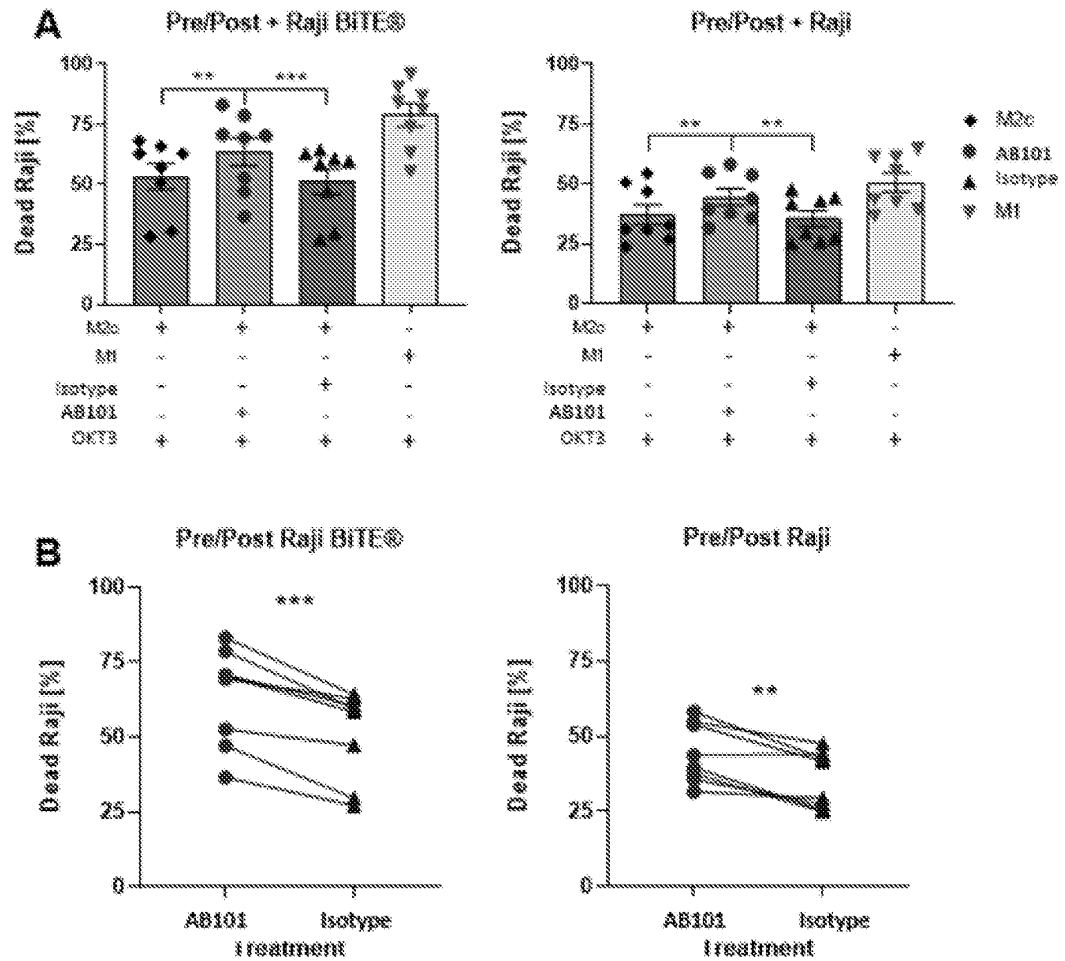


FIG. 42

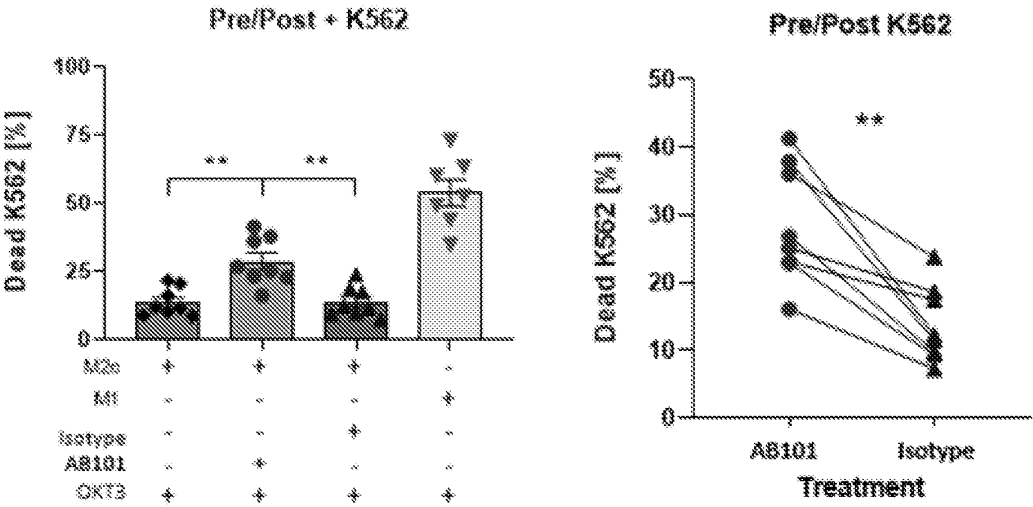
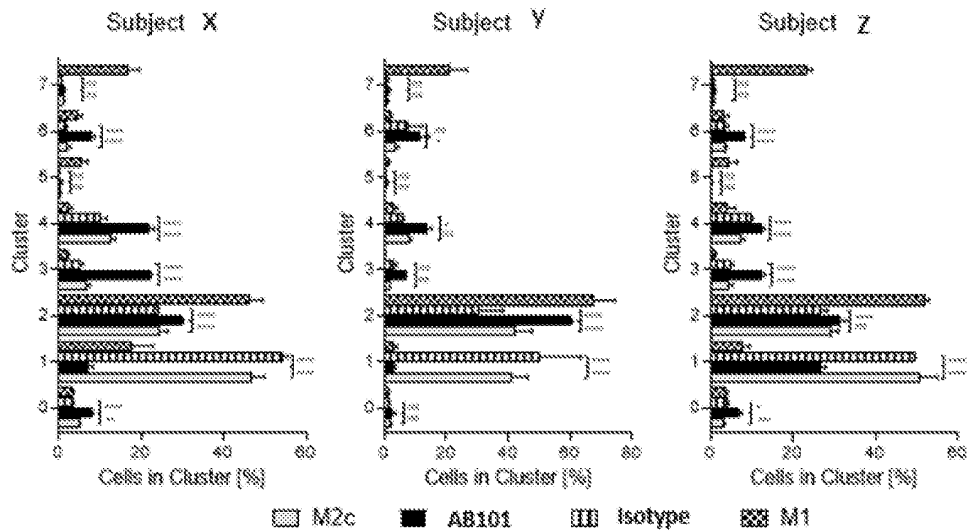


FIG. 42



FlowSOM Cluster	Phenotype	CD4 ⁺ T cell Status
1	CD127 ⁺ , CCR6 ⁺ , CD25 ⁺ , CCR4 ⁺ , CXCR3 ⁺ , CD69 ⁻	Resting
0	CD127 ⁺ , CCR6 ⁺ , CD25 ^{hi} , CCR4 ⁺ , CXCR3 ⁺ , CD69 ^{hi}	Activated
2	CD127 ⁺ , CCR6 ⁺ , CD25 ⁺ , CCR4 ⁺ , CXCR3 ⁺ , CD69 ^{hi}	Activated
3	CD127 ⁺ , CCR6 ⁺ , CD25 ⁺ , CCR4 ⁺ , CXCR3 ⁺ , CD69 ⁺	Activated
4	CD127 ⁺ , CCR6 ⁺ , CD25 ^{hi} , CCR4 ⁺ , CXCR3 ⁺ , CD69 ^{hi}	Activated
5	CD127 ⁺ , CCR6 ^{hi} , CD25 ^{hi} , CCR4 ⁺ , CXCR3 ⁺ , CD69 ⁺	Activated
6	CD127 ⁺ , CCR6 ⁺ , CD25 ^{hi} , CCR4 ⁺ , CXCR3 ⁺ , CD69 ⁺	Activated
7	CD127 ⁺ , CCR6 ⁺ , CD25 ^{hi} , CCR4 ⁺ , CXCR3 ⁺ , CD69 ⁺	Activated

FIG. 43

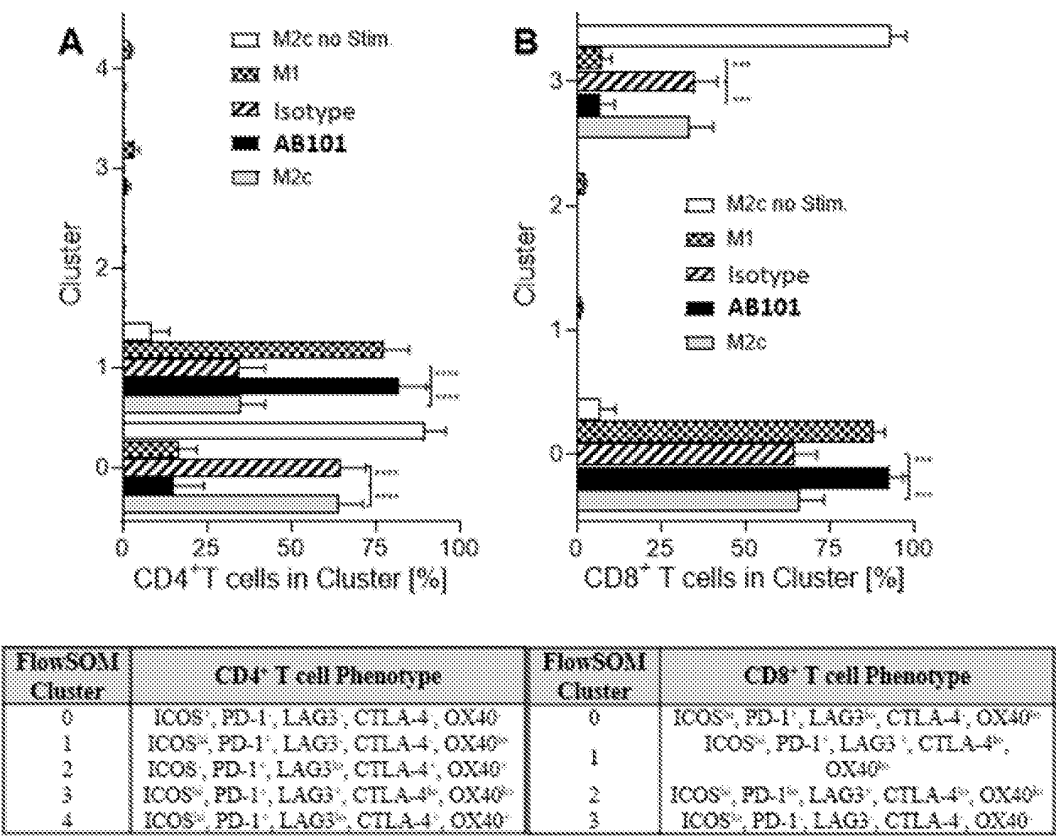
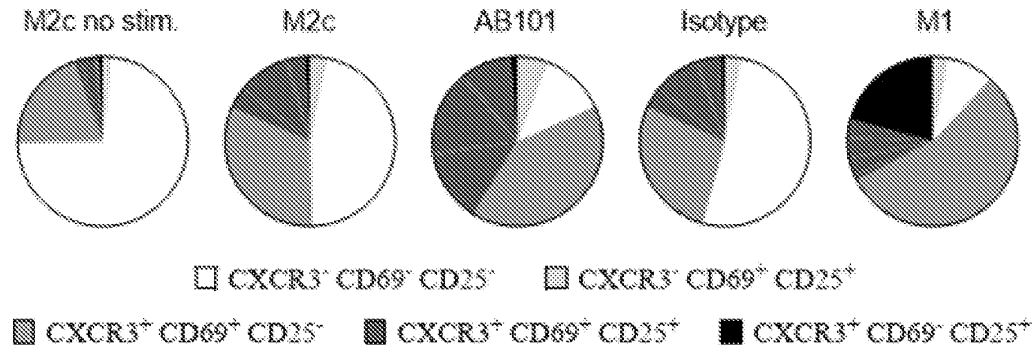


FIG. 44



CD4+ T cell Status	CXCR3 expression	Phenotype	FlowSOM Cluster
Resting	No	CXCR3 ⁻ , CD69 ⁻ , CD25 ⁻	1
Activated	No	CXCR3 ⁻ , CD69 ⁺ , CD25 ⁻	0
Activated	Yes	CXCR3 ⁺ , CD69 ⁻ , CD25 ⁻	2
Activated	Yes	CXCR3 ⁺ , CD69 ⁺ , CD25 ⁻	3-6
Activated	Yes	CXCR3 ⁺ , CD69 ⁺ , CD25 ⁺	7

FIG. 45

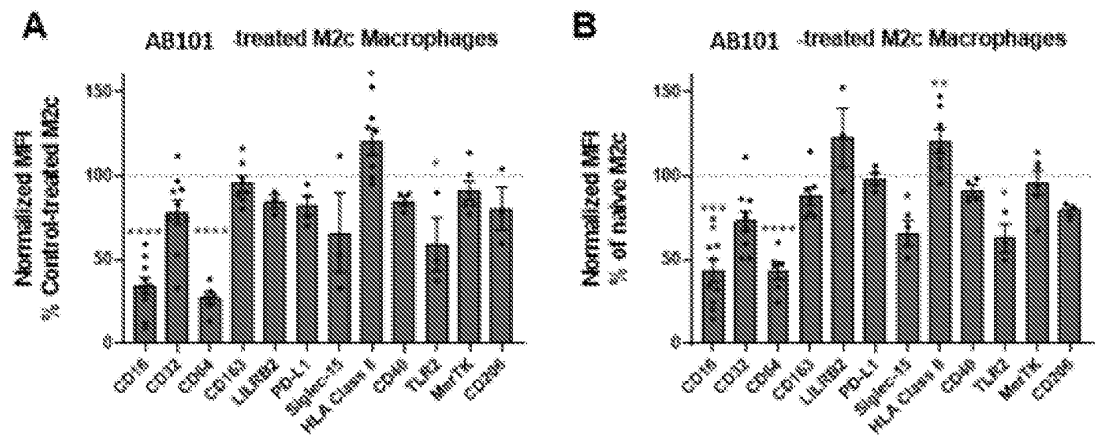


FIG. 46

```

10      20      30      40      50      60
GTDKELRLVD GENKCSGRVE VKVQEEWGTV CNNGWSMEAV SVICNQLGCF TATKAPQWAV

70      80      90      100     110     120
SSAGSGRIWM DHVSCRGNES ALNDCKHDCW GKHSNCTHQQ DAGVTCSDGS NLEMLTRGG

130     140     150     160     170     180
NMCSGRIRIK FQGRWGTVCD DNFNIDHASV ICRQLECGSA VSPGSSNFG EGSGPIWFOO

190     200     210     220     230     240
LTCNGNESAL WQCKHGGWCK HNCDAEDAG VICSKGADLS LRLVDGVTEC SGRLEVRFGG

250     260     270     280     290     300
EWGTICDDGW DSYDAAVACK QLGCTAVTA IGRVNASXGF GHIWLDGVSC QGHEFAYWQC

310     320     330     340     350     360
KHNEWGNMYC NNEDAGVTC SGGGLELRL AGGGRCACT VEVEIQRLIG KVCWGWGLK

370     380     390     400     410     420
EADVVCRLQG CGSAIKTSYQ VYSKIQTNT WLFLLSCNGN ETSLDWCKRW QWGLTCDHY

430     440     450     460     470     480
EAKITCSAH REPRLVGGDI PCSGRVEVKH GDTWGSICDS DFSLEASVL CRELQCCTVY

490     500     510     520     530     540
SILGASRGE GNGQIWAEF QCEGHESNLS LCPVAPRPEG TCSHSRDGVV VCSRYTEIRL

550     560     570     580     590     600
VNGKTPCEGR VELKTLGAWG SLCNSHWIE DANVLCQQLK CGVALSTFGG ARFGKRWQOI

610     620     630     640     650     660
WRBMFHTGT EQHMGDCPVT ALGASLCPSE QVASVICSGN QSQTLSSCNS SSLGPTAFTI

670     680     690     700     710     720
PEESAVACIE SQQLRLVNGG GRCAGRVEIY HEGSWGTCID DSWDLSDAHV VCRQLCGGEA

730     740     750     760     770     780
INATGSAHFG EGTGPIWLDE MKCNGKEBRI WQCHSHGWGQ QNCRHKEDAG VICSEFMSLR

790     800     810     820     830     840
LTSEASREAC AGRLEVYFNG AWGTVGKSSM SETTVGVVCR QLGCAKGGKI NPASLDKAMS

850     860     870     880     890     900
IPMWVDNVQC PKGPDTLWQC PSSPWEKRLA SPSEETNITC DNKIRLQEGF TSCSGRVEIW

910     920     930     940     950     960
HGGSWGTVCD DSWDLDAQV VCQQLGCGPA LKAFKEAEFG QGTGPIWLNE VKCKGNESL

970     980     990     1000    1010
WDCPARRWGH SECCHKEDAA VNCTDISVQK TPQKATTGRS SRQSSHHHHH HHHHH

```

More flexible  More protected

No change

FIG. 47

```

10      20      30      40      50      60
GTDKELRLVD GENKCSGRVE VKVQSENGTV CNNQWSEAV SVICNQLGCF TAIKAFQWAN

70      80      90      100     110     120
SSAGSRIRNM DHVSCRGNES ALWDCKHDCW GKHSNCTHQO DAGVTCSDGS NLENPLTRGG

130     140     150     160     170     180
NMCSGRIRIK PQGRWGTVCN DNFNIDHASV ICRQLEDCSA VSFSGSSNFG ESGGPIWFDD

190     200     210     220     230     240
LICNGHESAL WNCKHQGWGX HNCDBAEDAG VICKSGADLS LRLVDGVTEC SGRLEVRFQG

250     260     270     280     290     300
EWGTICDDGW DSYDAAVACK QLGCPTAVTA IGVVNASKGF GHINLDSVSC QGREPAVWQC

310     320     330     340     350     360
KHHEWGHKHYC NHMEDAGVTC SDGSDLELRL RGGGSRGAGT VEVEIQRIILG KVCDSNGGLE

370     380     390     400     410     420
RADVVCRLG CGSALKTSYQ VYSKIQATNT WFLSSCHGN STSLNDCKHW QNGSLTCDHY

430     440     450     460     470     480
EEAKITCSAH REPRLVGGDI PCSGRVEVKH GDTWGSICDS DYSLEAASVL CRELQCCTVY

490     500     510     520     530     540
SILGASHPEE GNGQIWAEFF QCEGHESHLS LCPVAPRFGQ TCSHRDVGQV VCSRYTEIRL

550     560     570     580     590     600
VNGKTPCEGR VELKYLGAWS SLCSNHWIE DARVLCQQLK CGVALSTPGG ARFGKGNQGI

610     620     630     640     650     660
WKHMFCGTGT EQHMGDCPVT ALGASLCPEE QVASVICSGN QSQTLSGCSG SSLOPTRPTI

670     680     690     700     710     720
PEECAYACIE SQQLRLVNGG GRCAQVRIY HEGSWGTICD DNDLSDAHV VCRQLCCSEA

730     740     750     760     770     780
INATGSANFG EGTGPIWLDE MKCNGKESKI WQCHSHWQQQ QNCRKEDAG VICSEFNSLR

790     800     810     820     830     840
LTSEASREAC AGRLVFFYNG AWGTVGKSSM SETTVGVVCR QLGCANNGRI WFAILDKAMS

850     860     870     880     890     900
IPMWVDNVQC PRGFDTLWQC PSSPWEKRLA SPSEETWITC DNKIKLQSGF TSCGRVETW

910     920     930     940     950     960
HGGSWGTVCN DSWLDGAGV VCQQLCCGPA LEAFKEARFG QGTGPIWLNE VCKCKHESBL

970     980     990     1000    1010
WDCKFRRWGN SECGHKSAA VNCTDISVQR TPQKATTORS SRQSSHHHHH HHHHH

```

More flexible  More protected

No change

FIG. 48

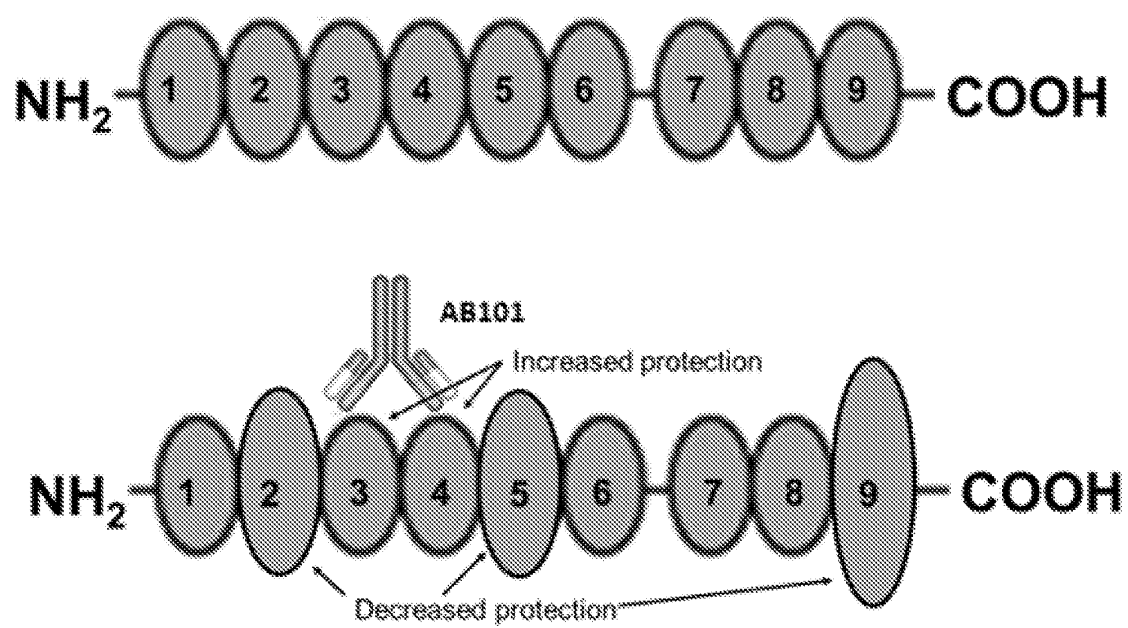


FIG. 49

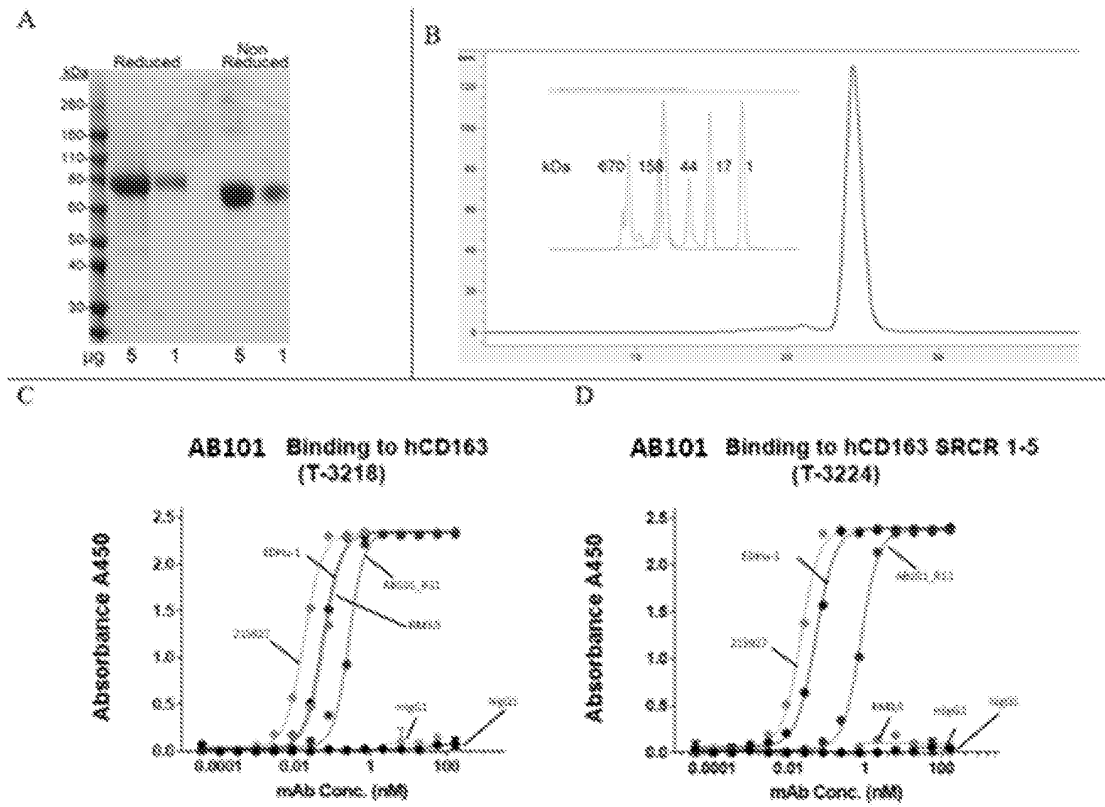


FIG. 50

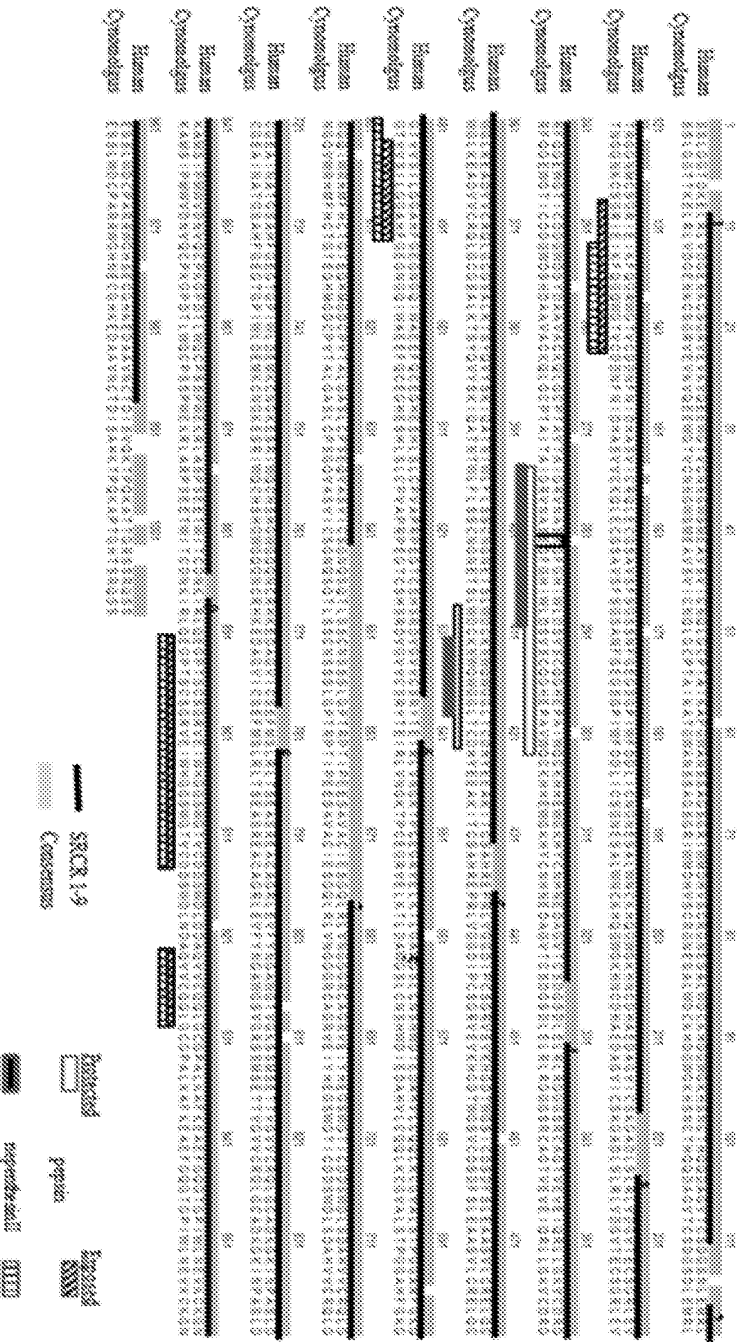


FIG. 51

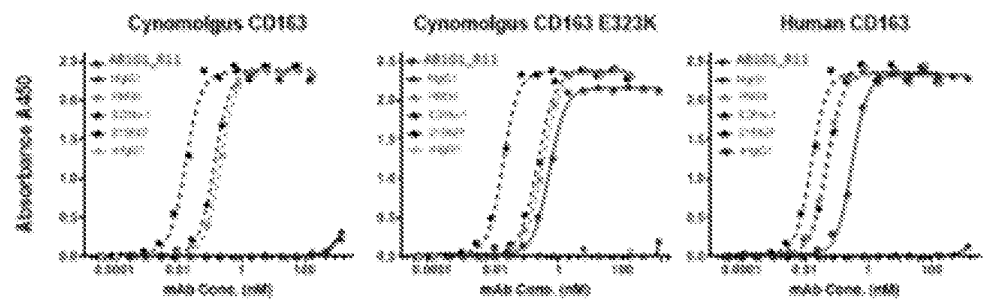


FIG. 52

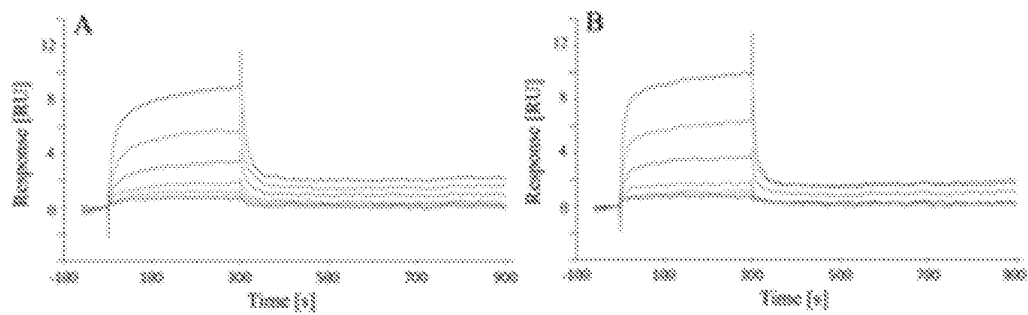


FIG. 53

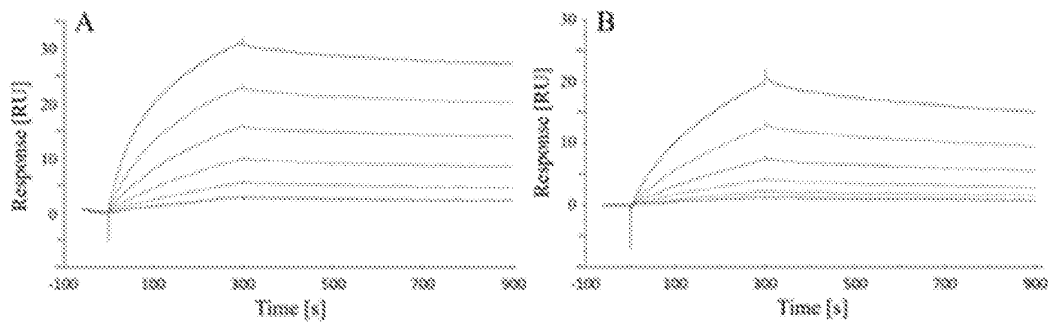


FIG. 54

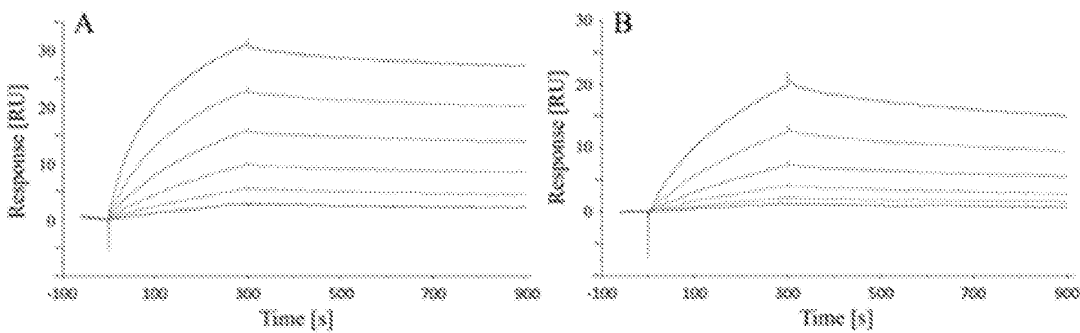


FIG. 55

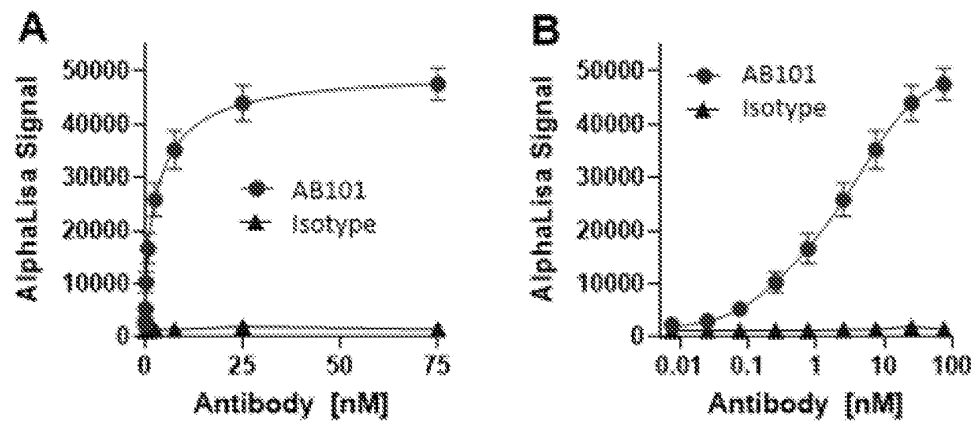


FIG. 56

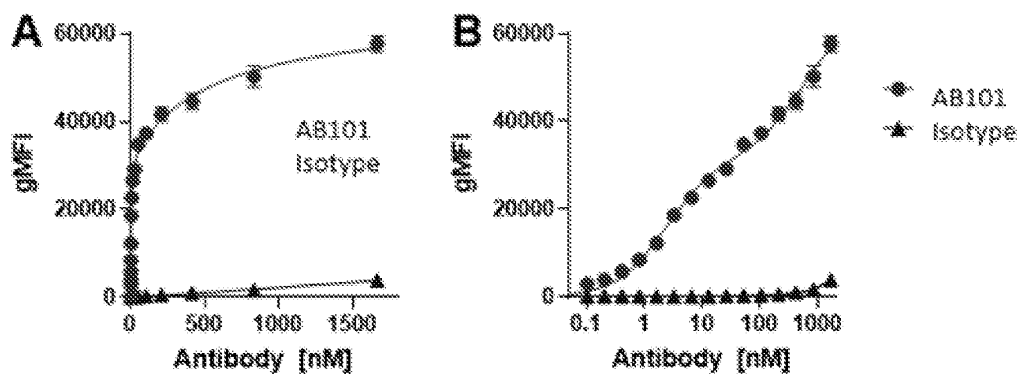


FIG. 57