

>tr | A0A0G2JMB2 | A0A0G2JMB2_HUMAN Immunoglobulin heavy
constant alpha 2 (Fragment) OS=Homo sapiens OX=9606
GN=IGHA2 PE=1 SV=1

ASPTSPKVFPLSLDSTPQDGNVVVACL VQGF F P Q E P L S V T W S E S G Q **N** V T A R N F P P S Q
DASGDL Y T T S S Q L T L P A T Q C P D G K S V T C H V K H Y T N P S Q D V T V P C **P** V P P P P C C H P R L
S L H R P A L E D L L L G S E A N L T C T L T G L R D A S G A T F T W T P S S G K S A V Q G P P E R D L C G C Y S
V S S V L P G C A Q P W N H G E T F T C T A A H P E L K T P L T A **N I T T** K S G N T F R P E V H L L P P P S E F L A
L N E L V T L T C L A R G F S P K D V L V R W L Q S Q E L P R E K Y L T W A S R Q E P S Q G T T F A V T S I L
R V A A E D W K K G D T F S C M V G H E A L P L A F T Q K T I D R I A G K **P T H V N V S V M A E V D G T C Y**

SEQ ID NO: 1

FIG. 1

>sp|P01877|IGHA2_HUMAN Immunoglobulin heavy constant
alpha 2 OS=Homo sapiens OX=9606 GN=IGHA2 PE=1 SV=4

ASPTSPKVFPLSLDSTPQDGNVVVACLVQGFEPQELSVTWSESGQ**N**VTARNF
PPSQDASGDLYTTSSQLTLPATQCPDGKSVTCHVKHYTNSSQDVTVPCC**R**VPPP
PPCCHPRLSLHRPALEDLLGSEANLTCTLTGLRDASGATFTWTPSSGKSAVQ
GPPELDLCGCYSVSSVLP**CA**QWPWNHGETFTCTAAHPELKTPLTA**NI**TKSGNT
FRPEVHLLPPPSEELALNELVTLTCLARGFSPKDVLRWLQGSQELPREKYLT
WASRQEPSQGTTTYAVTSILRVAEDWKKGETFSCMVGHEALPLAFTQKTIDR
MAGK**PTHINVSVMAEADGTCY**

SEQ ID NO: 2

FIG. 2

>tr|A0A286YFY5|A0A286YFY5_HUMAN Immunoglobulin heavy constant
alpha 2 (Fragment) OS=Homo sapiens OX=9606 GN=IGHA2 PE=1 SV=1

ASPTSPKVFPLSLDSTPQDGNVVACLVQGFFPQEP¹LSVTWSESGQ²**N**V³TARNFPSPSQDASG
DLYTTSSQLTLPATQCPDGKSVTCHVKHYTNSSQDVTVPCC**R**VPPPPCCHPRLSLHRPALE
DLLLGSEANLTCTLTGLRDASGATFTWTPSSGKSAVQGP⁴PERDLCGCYSVSSVLP⁵G**C**AQ⁶PW
NHGETFTCTAAHP⁷ELKTP⁸LT**A**⁹**N**¹⁰IT¹¹KSGNTFRPEVHLLPPSEELALNELVTLTCLARGFSP
KDV¹²LV¹³RW¹⁴LQ¹⁵SQ¹⁶ELPREKYLTWASRQEPSQGT¹⁷TYAVTSILRVA¹⁸AEDWKKGETFSCMVGHE
ALPLAFTQKTIDRMAGSCCVADWQMP¹⁹PPYV²⁰VL²¹DL²²PQ²³ETL²⁴EEFTP²⁵GANLWPTTIT²⁶FTL²⁷FL²⁸LL
SLFYSTALT²⁹TSVRG³⁰PSGKREG³¹PQY

3/34

SEQ ID NO: 3

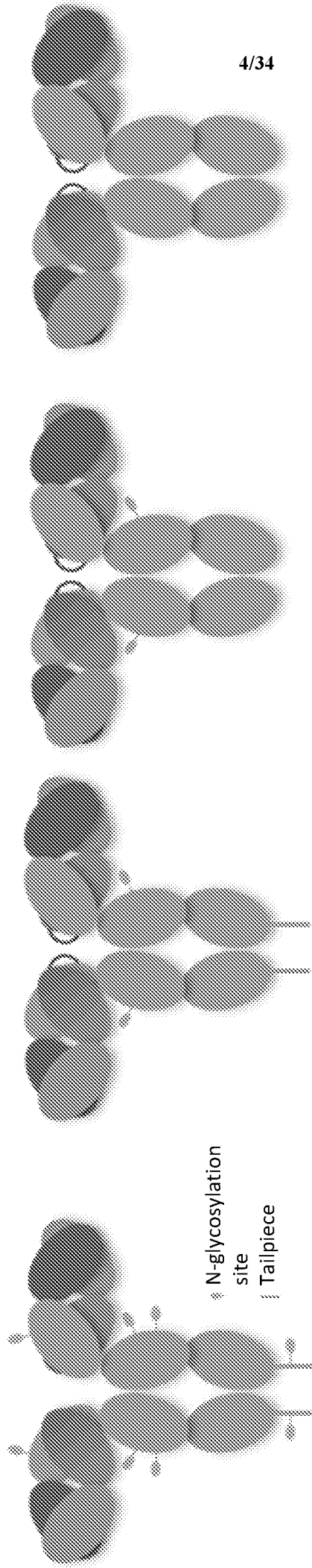
FIG. 3

IgA4.0

IgA3.0min

IgA3.0 +

IgA2m1



N-glycosylation
site
Tailpiece

FIG. 4A

FIG. 4B

FIG. 4C

FIG. 4D



FIG. 5B

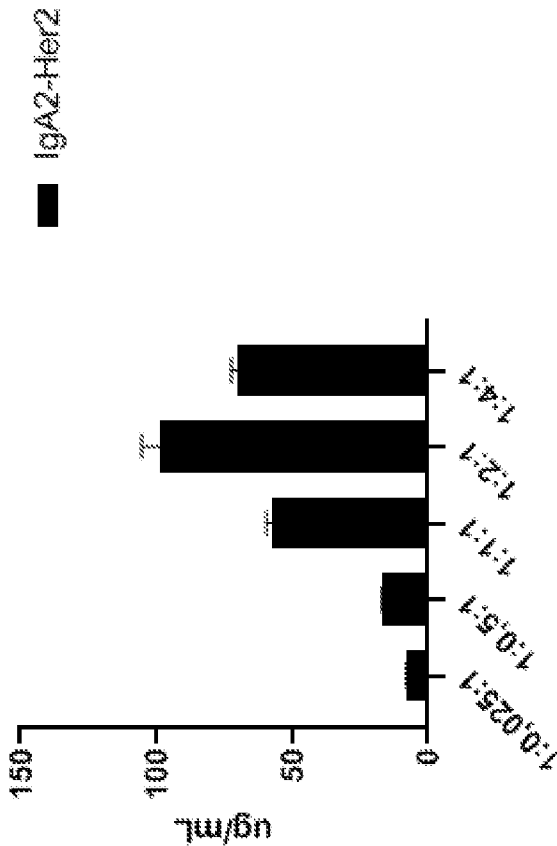


FIG. 5A

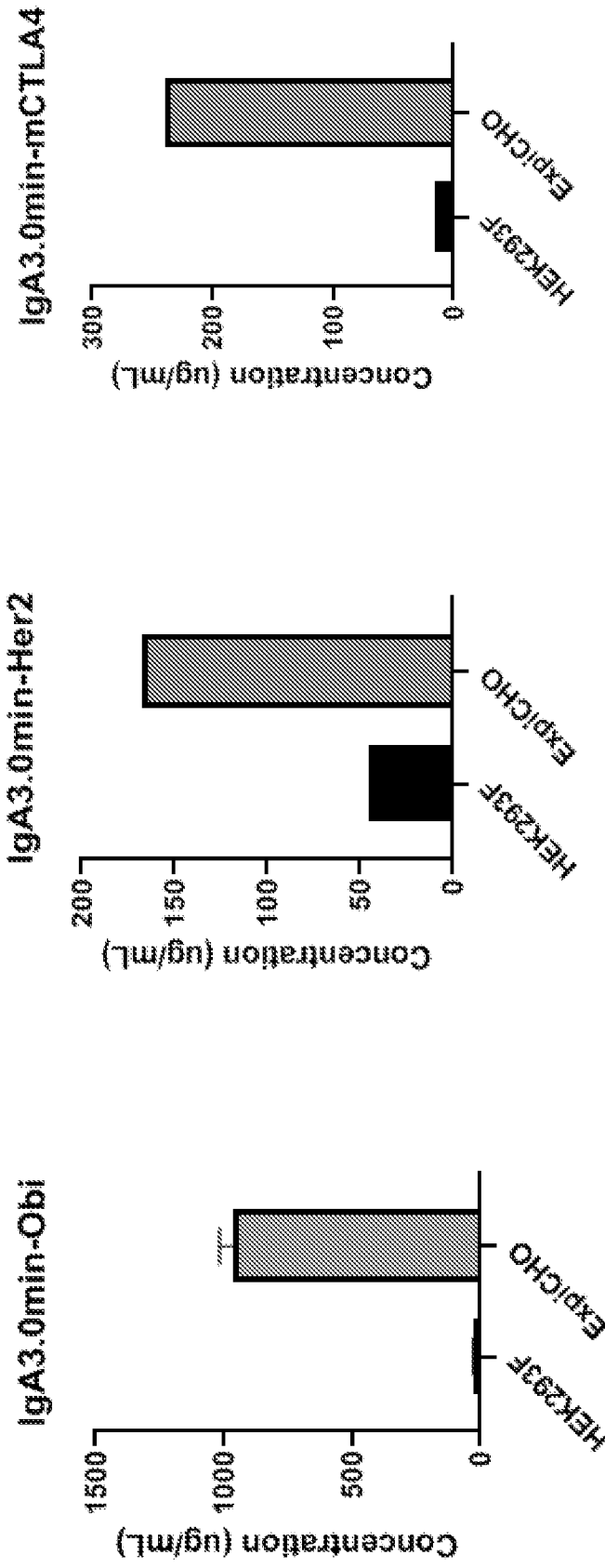


FIG. 6C

FIG. 6B

FIG. 6A

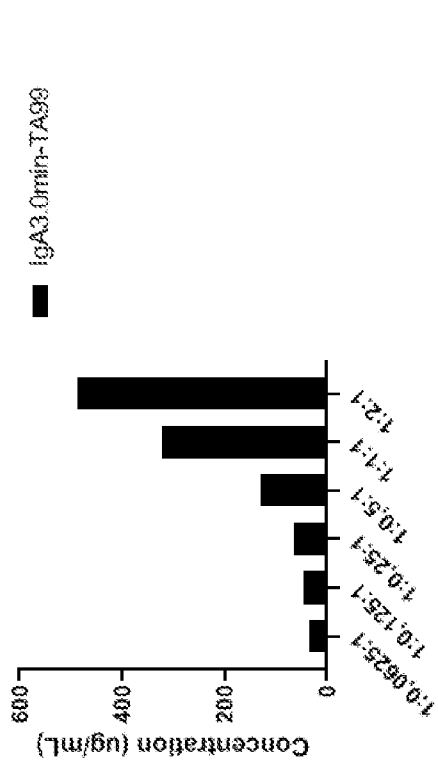


FIG. 7B

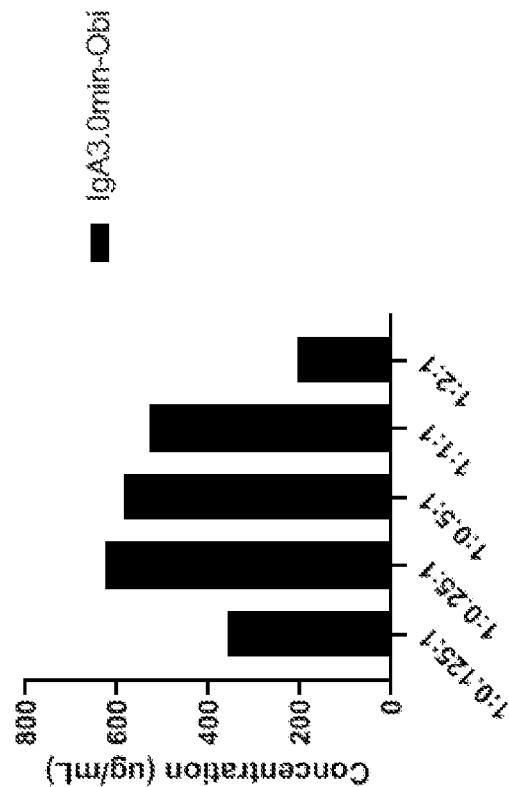


FIG. 7D

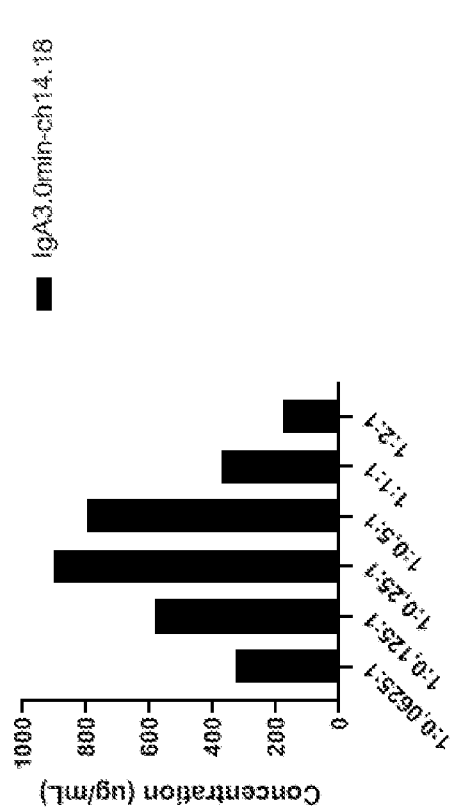


FIG. 7A

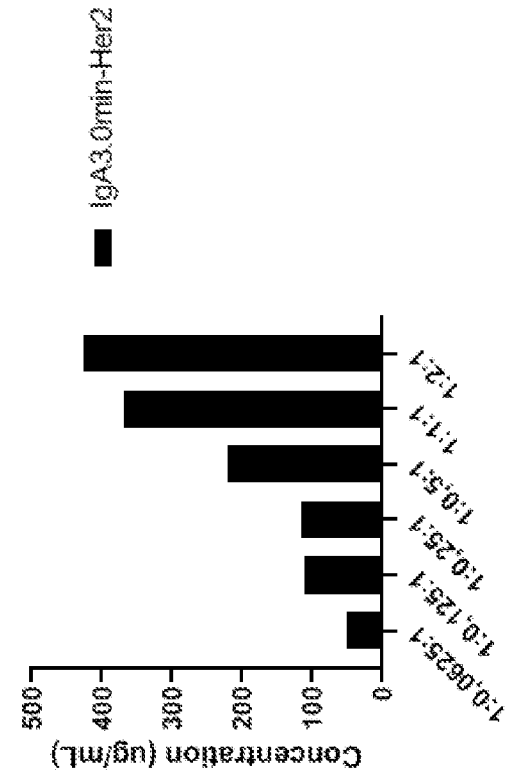


FIG. 7C

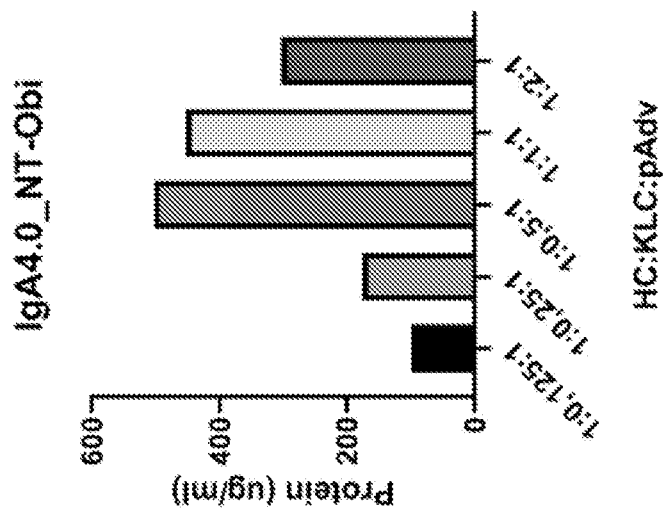


FIG. 8B

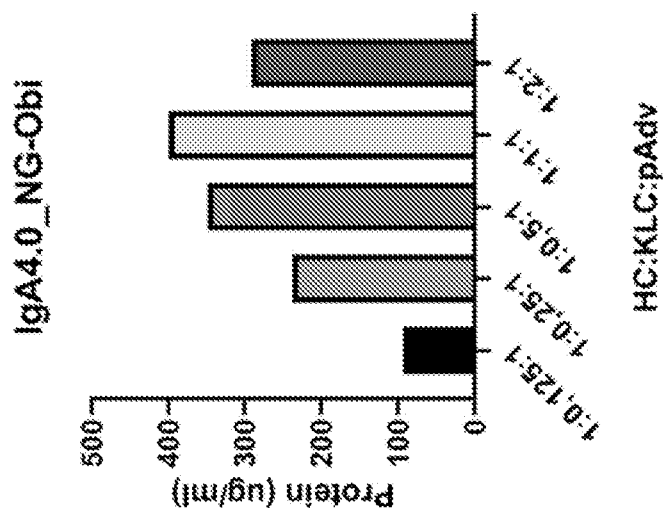


FIG. 8A

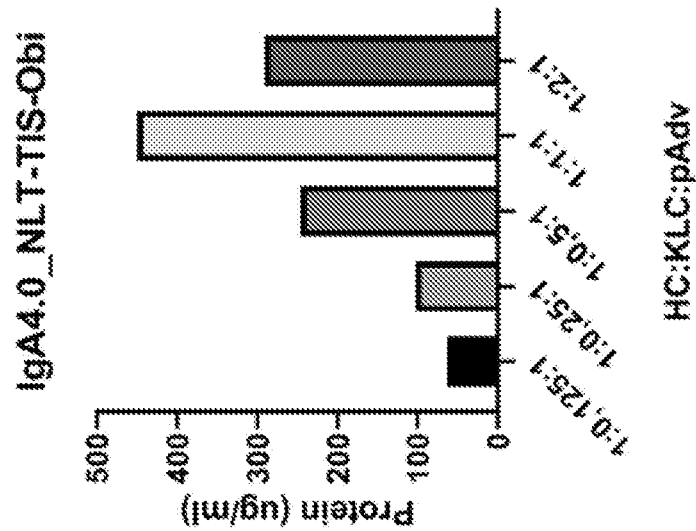


FIG. 8D

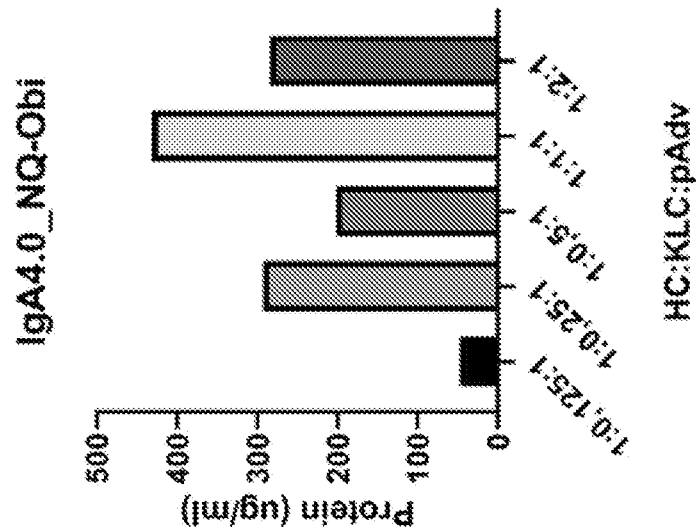


FIG. 8C

ExpiCHO-S

HEK293F

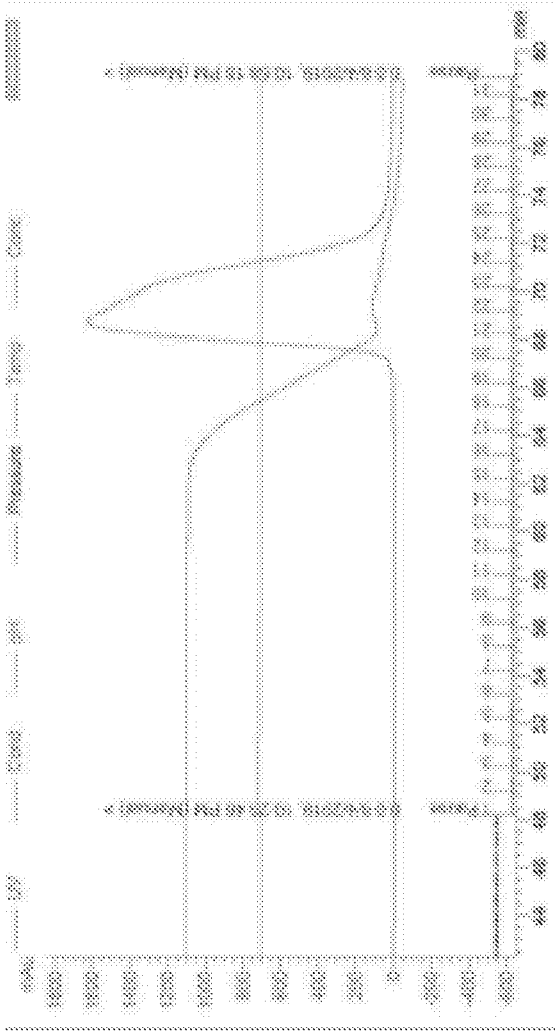


FIG. 9A

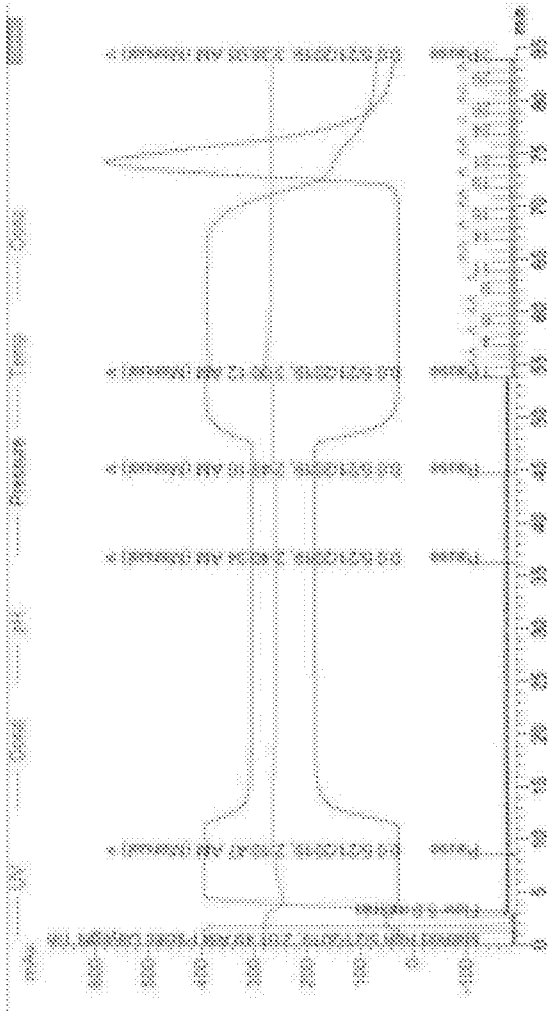


FIG. 9B

ExpiCHO-S

HEK293F

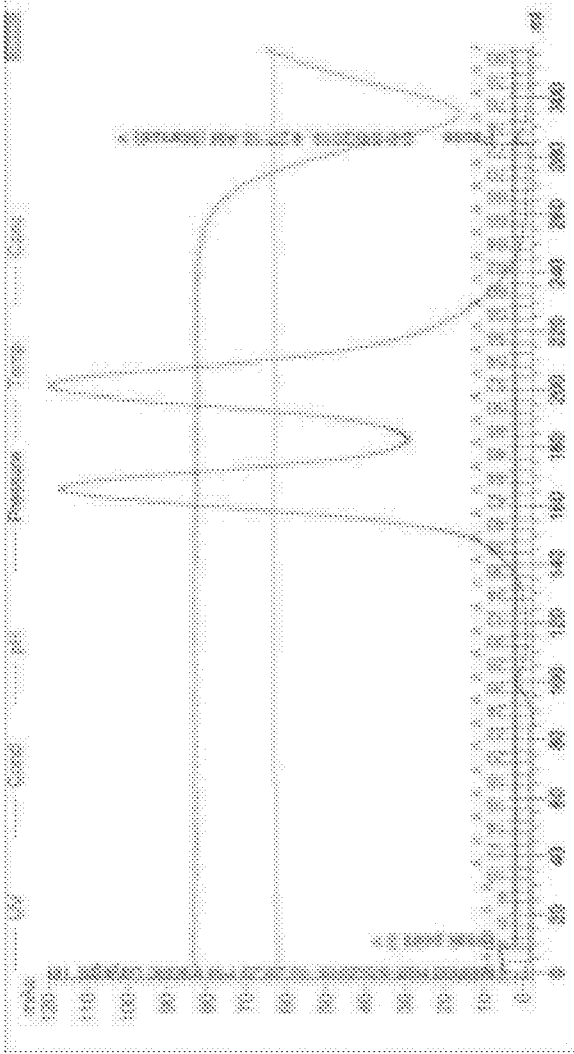


FIG. 9C

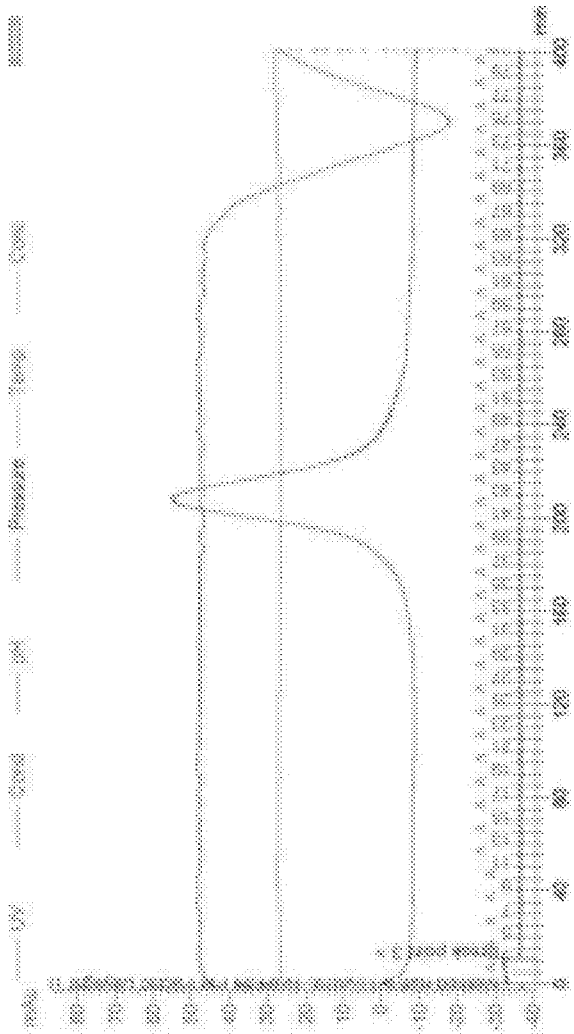


FIG. 9D

ExpiCHO-S

HEK293F

FIG. 10A

FIG. 10B

ExpiCHO-S

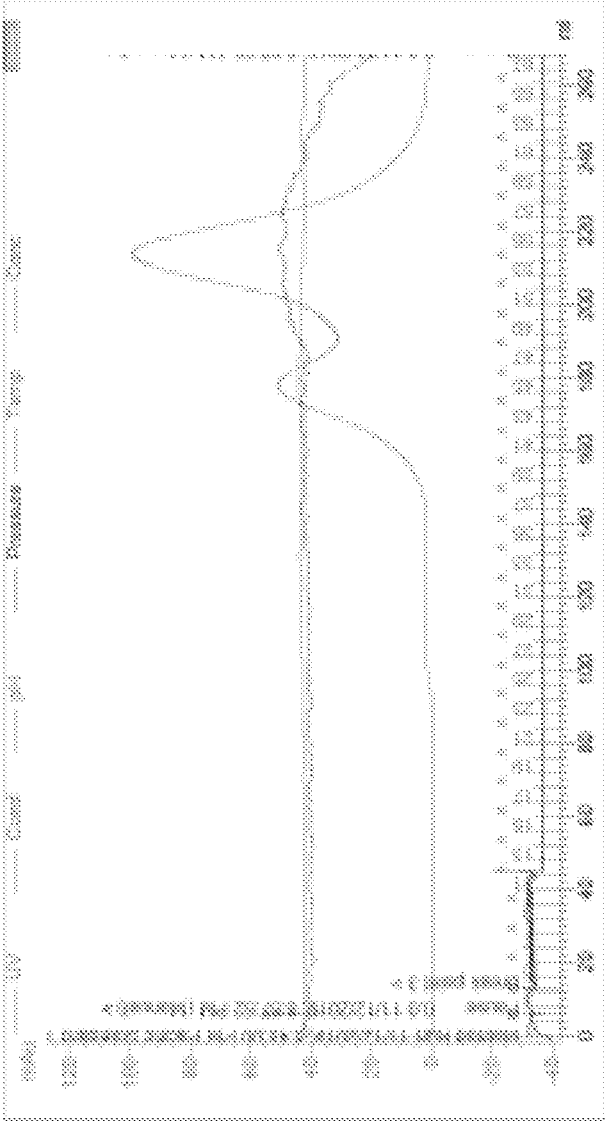


FIG. 10C

HEK293F

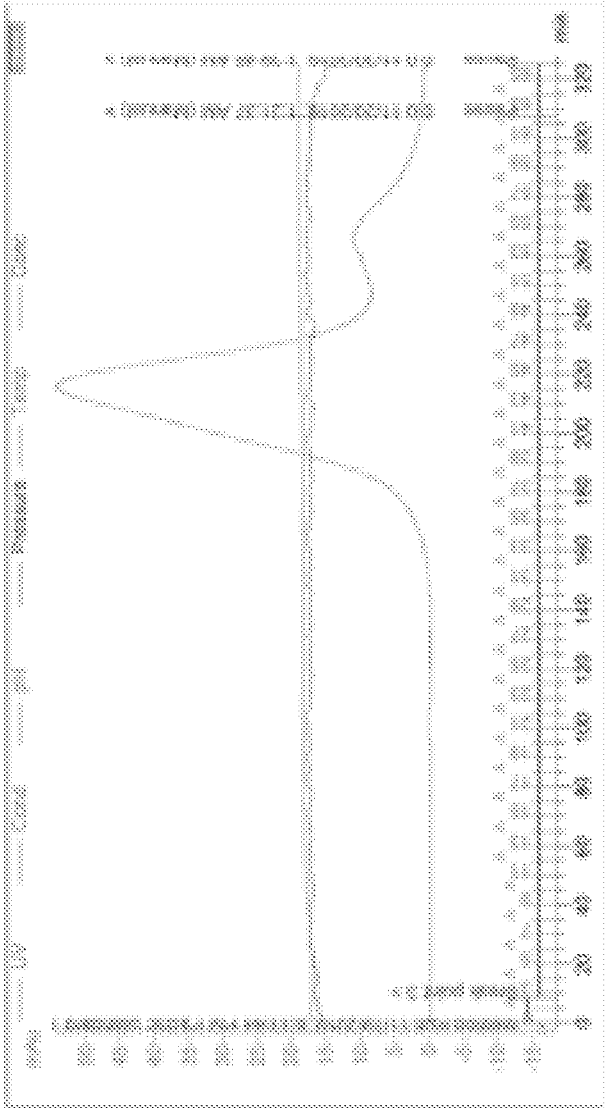


FIG. 10D

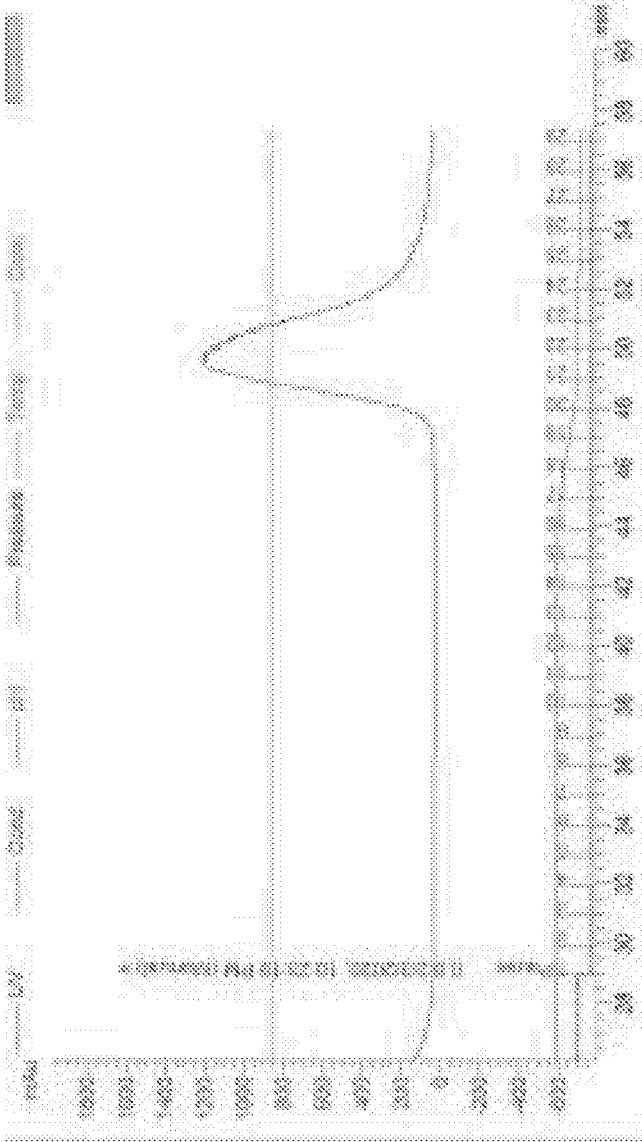


FIG. 11A

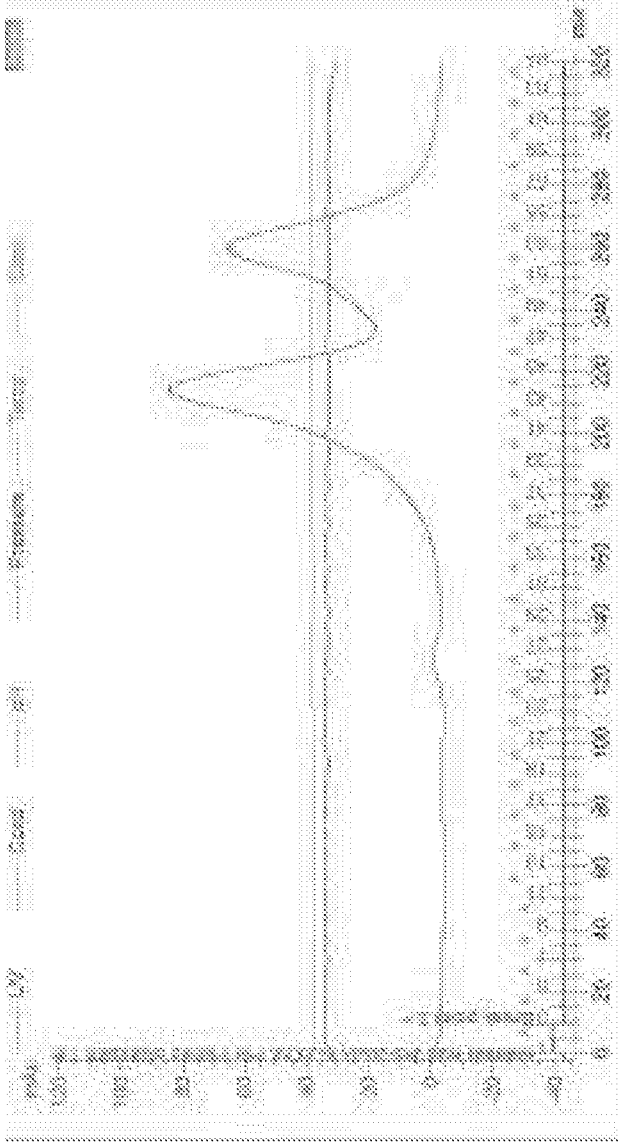


FIG. 11B

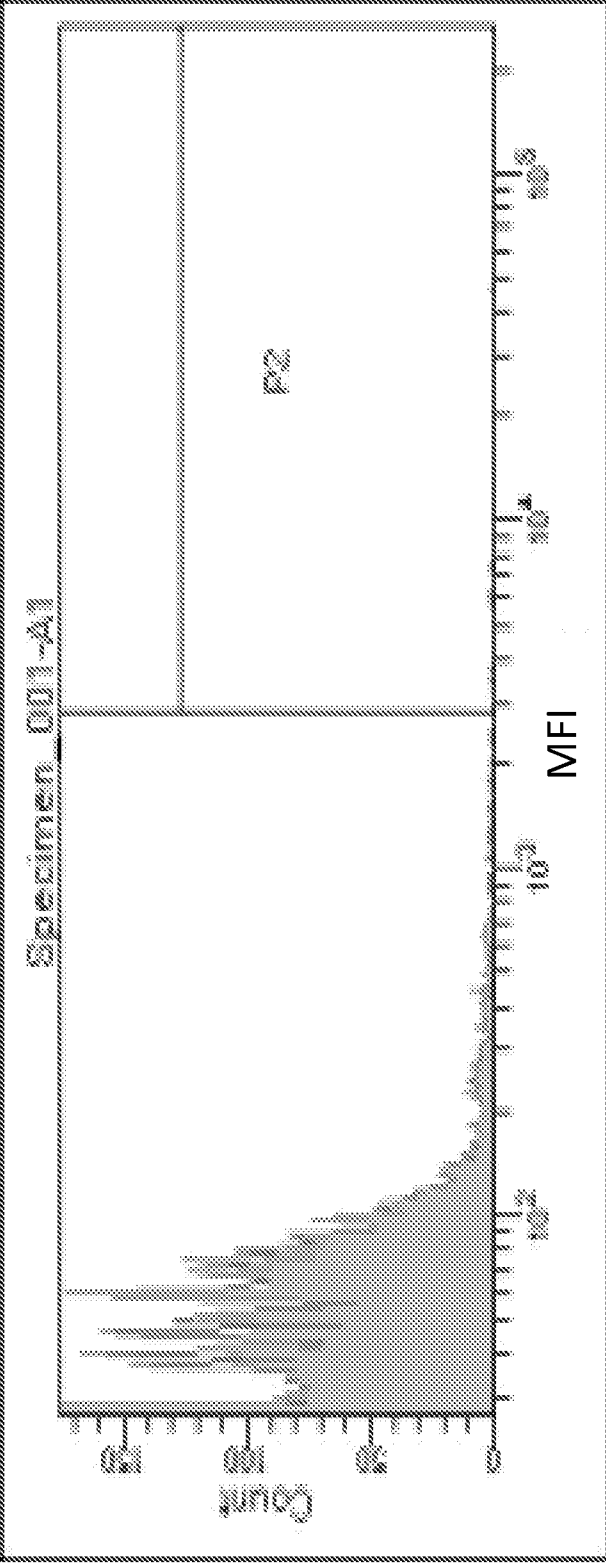


FIG. 12A

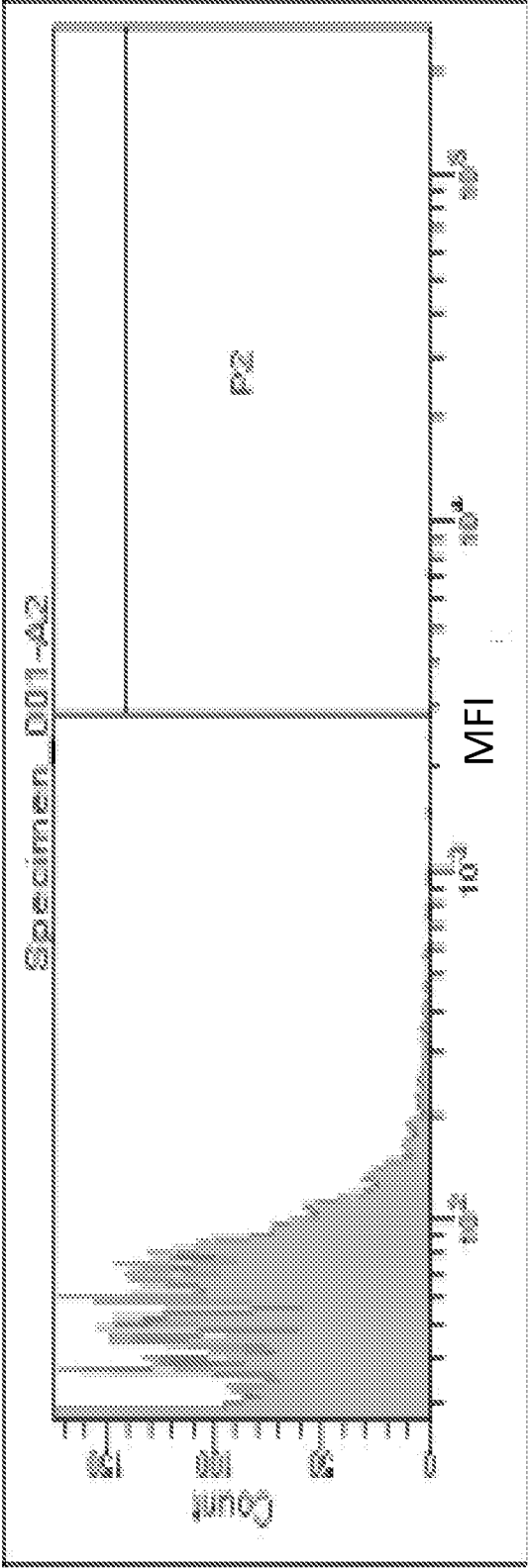


FIG. 12B

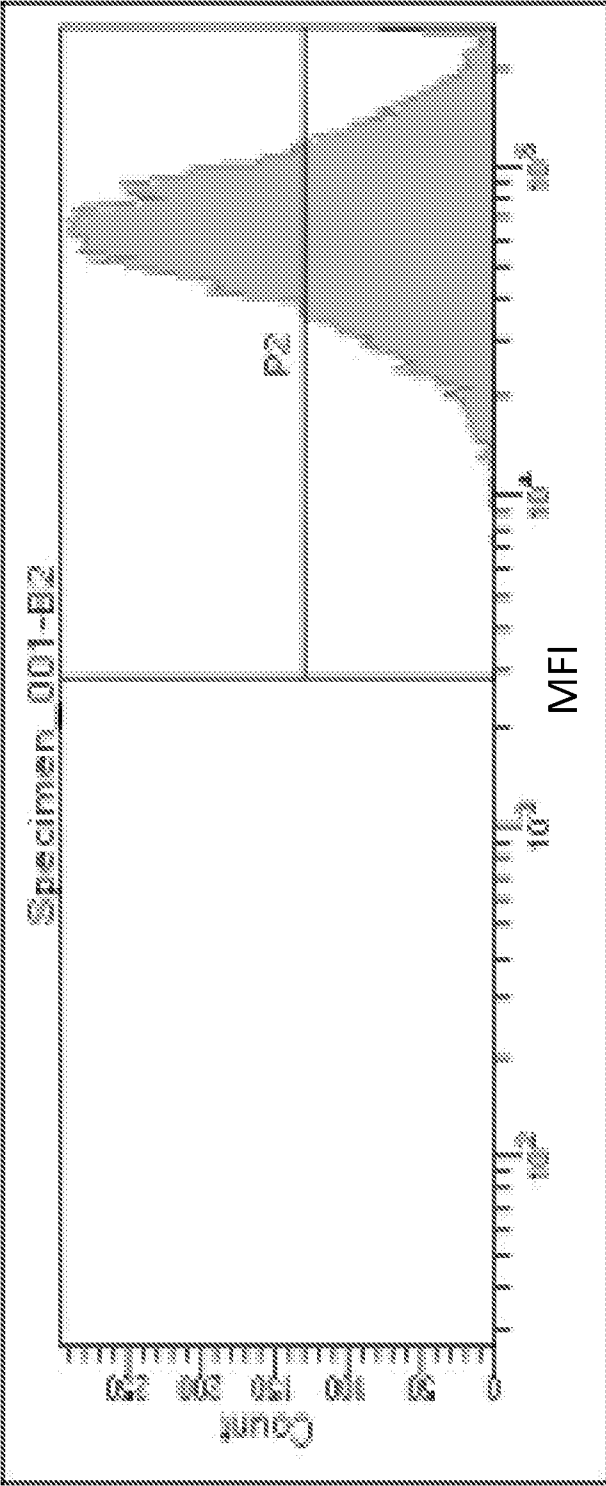


FIG. 12C

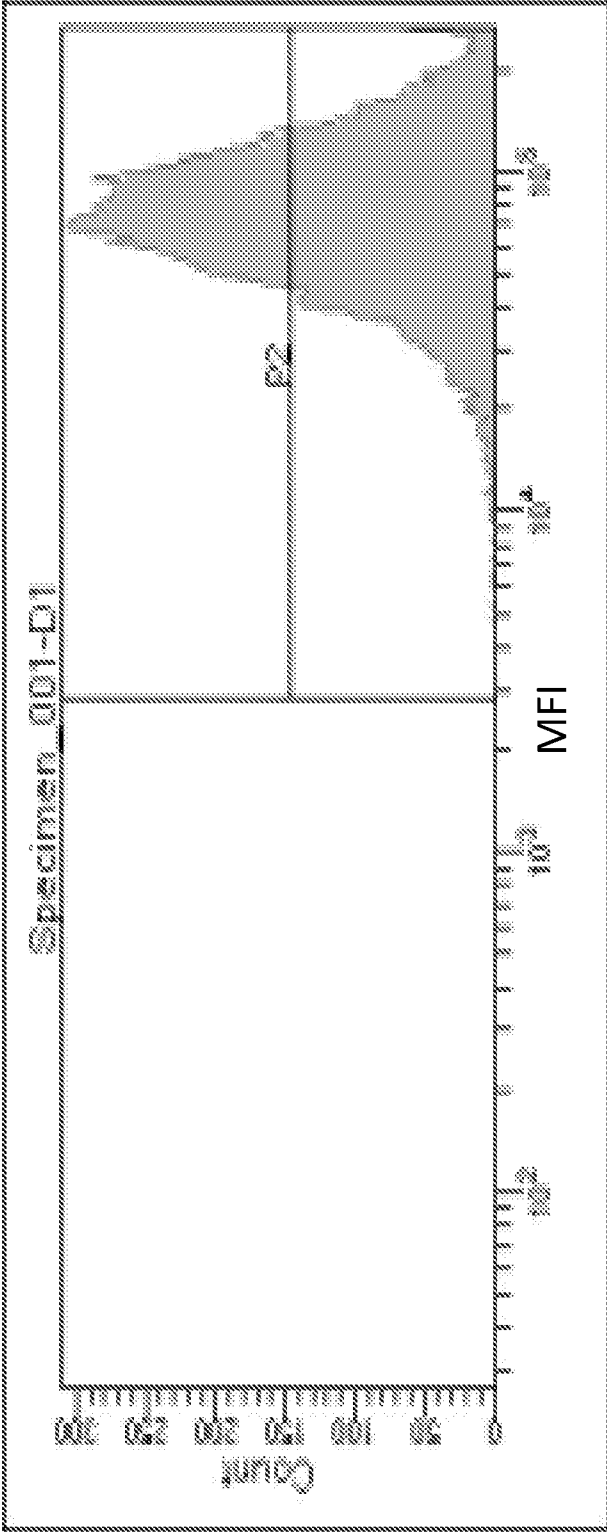


FIG. 12D

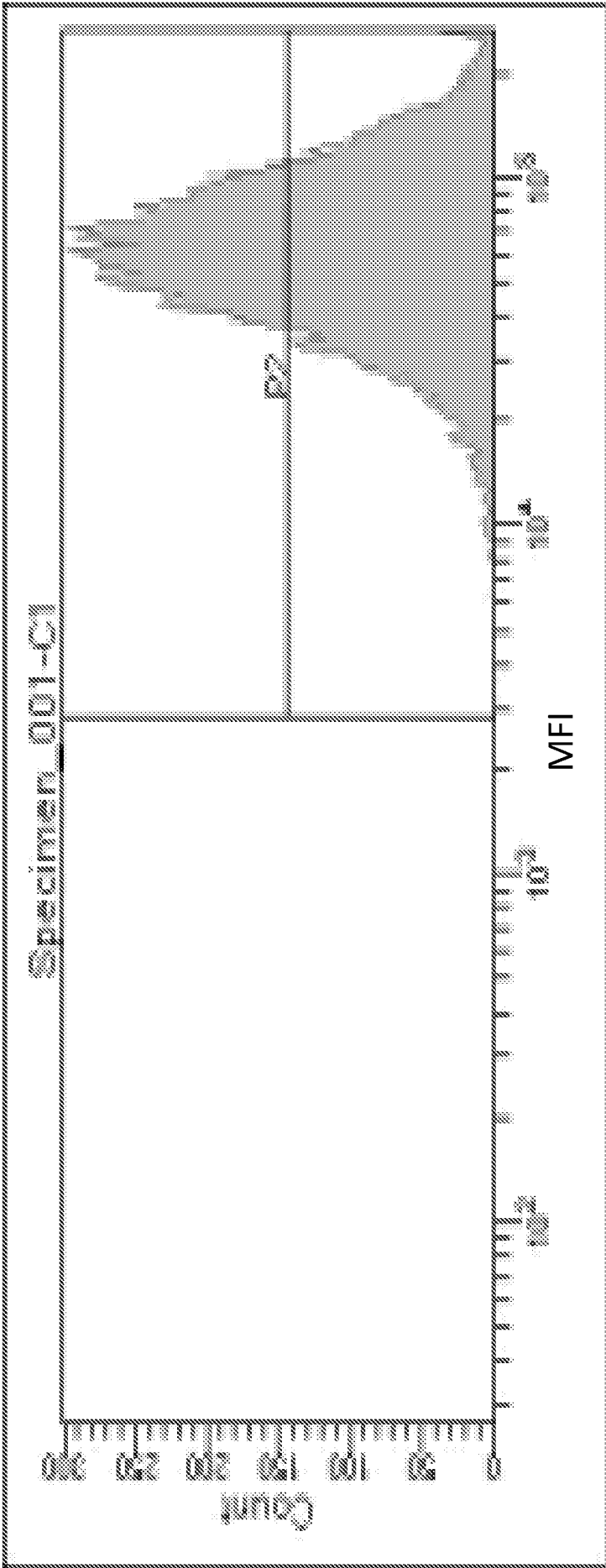


FIG. 12E

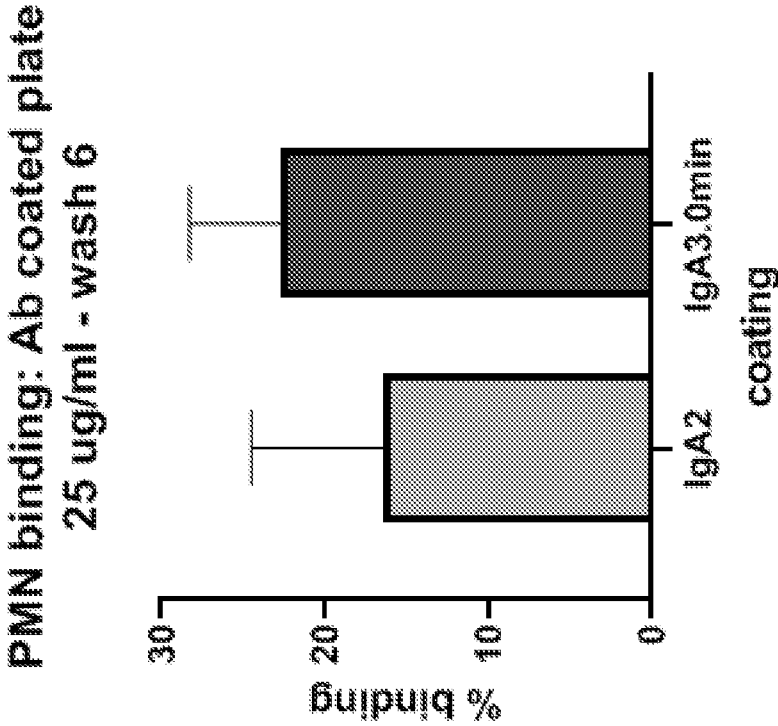


FIG. 13

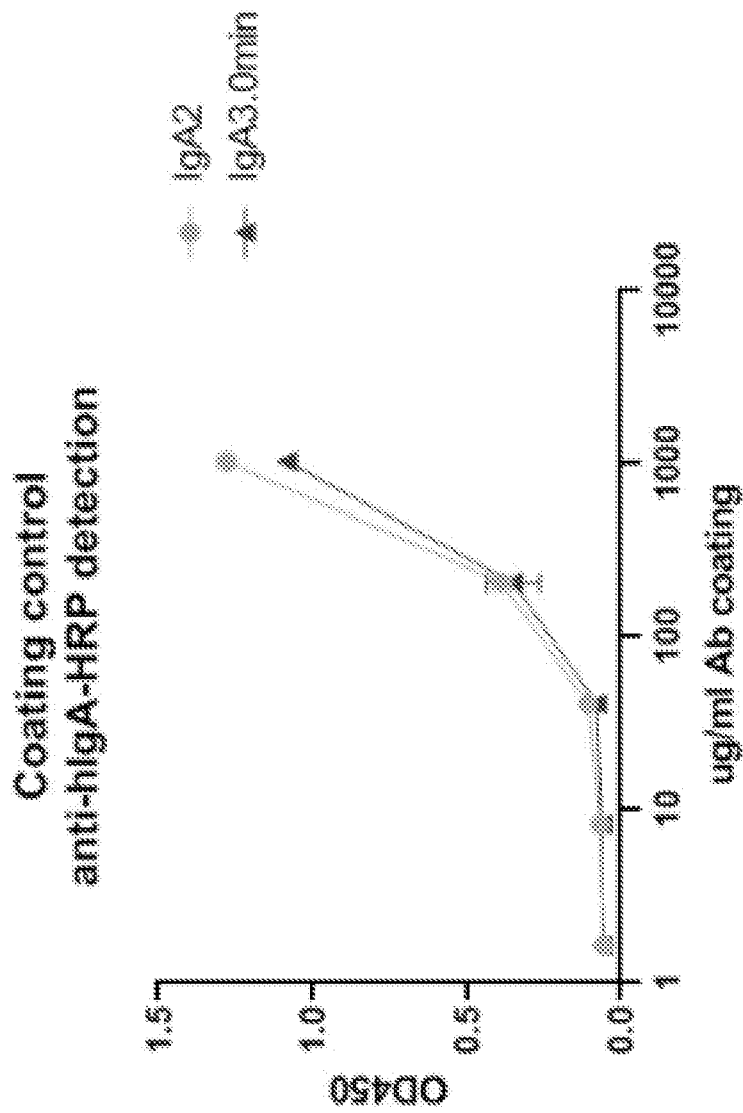


FIG. 14

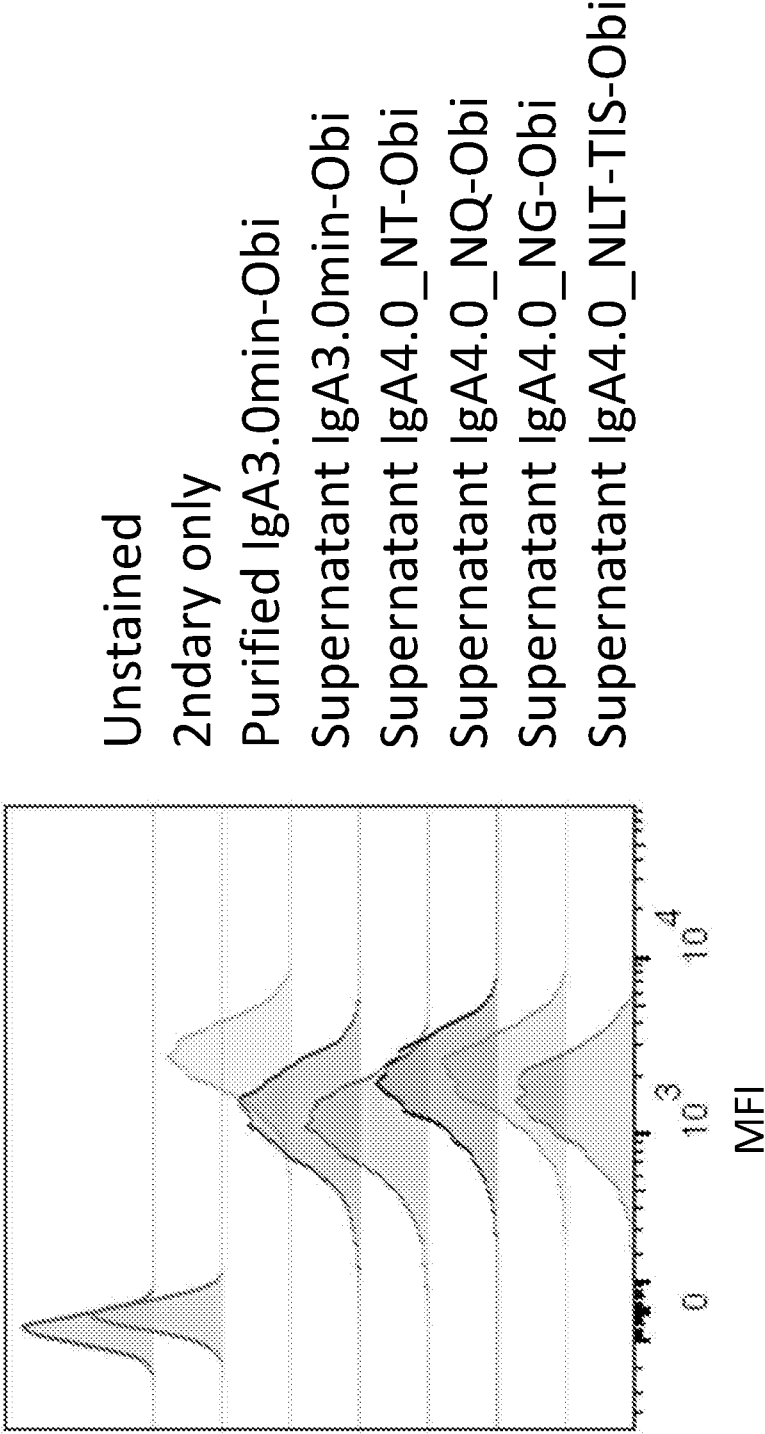


FIG. 15

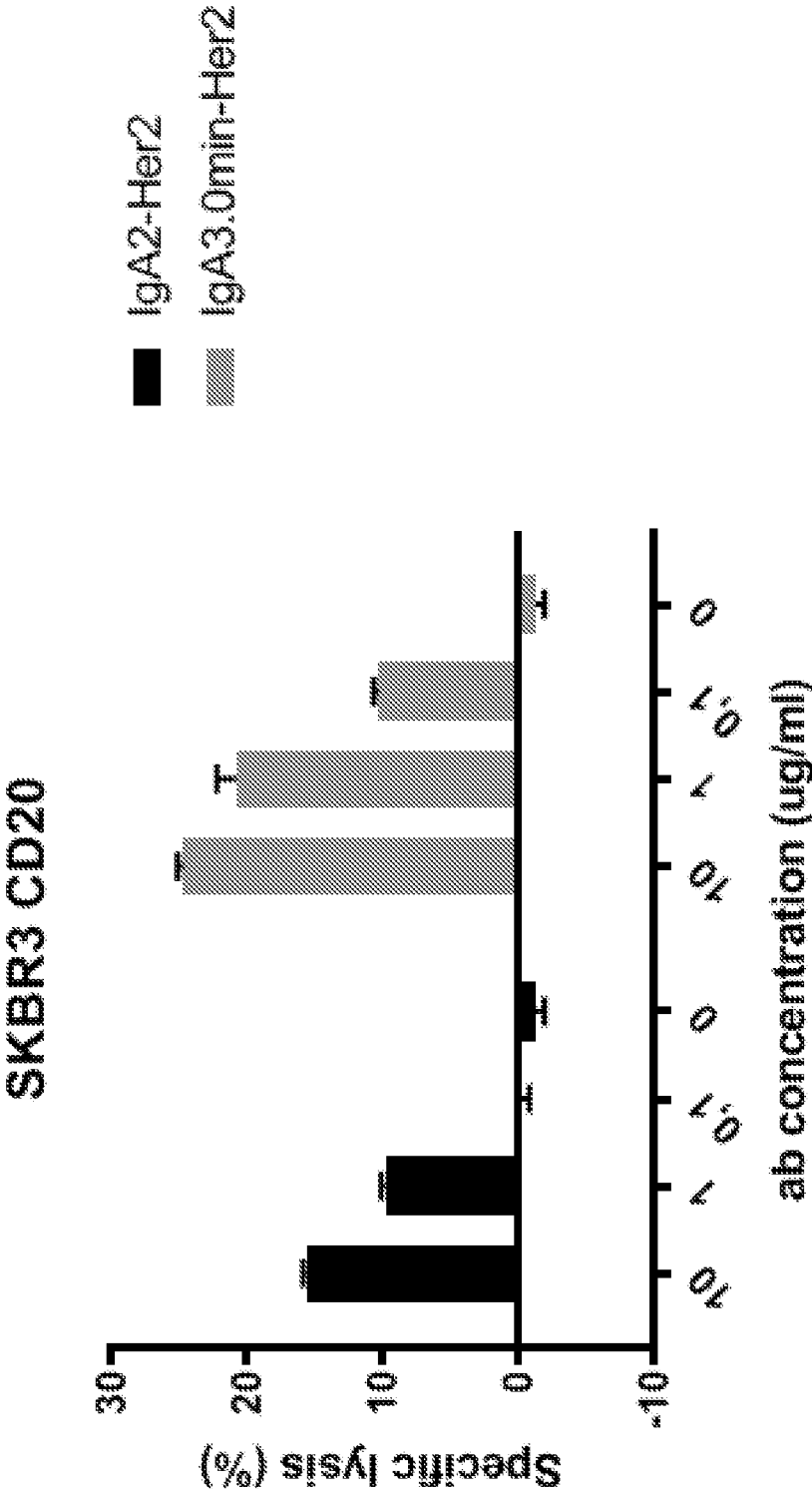


FIG. 16A

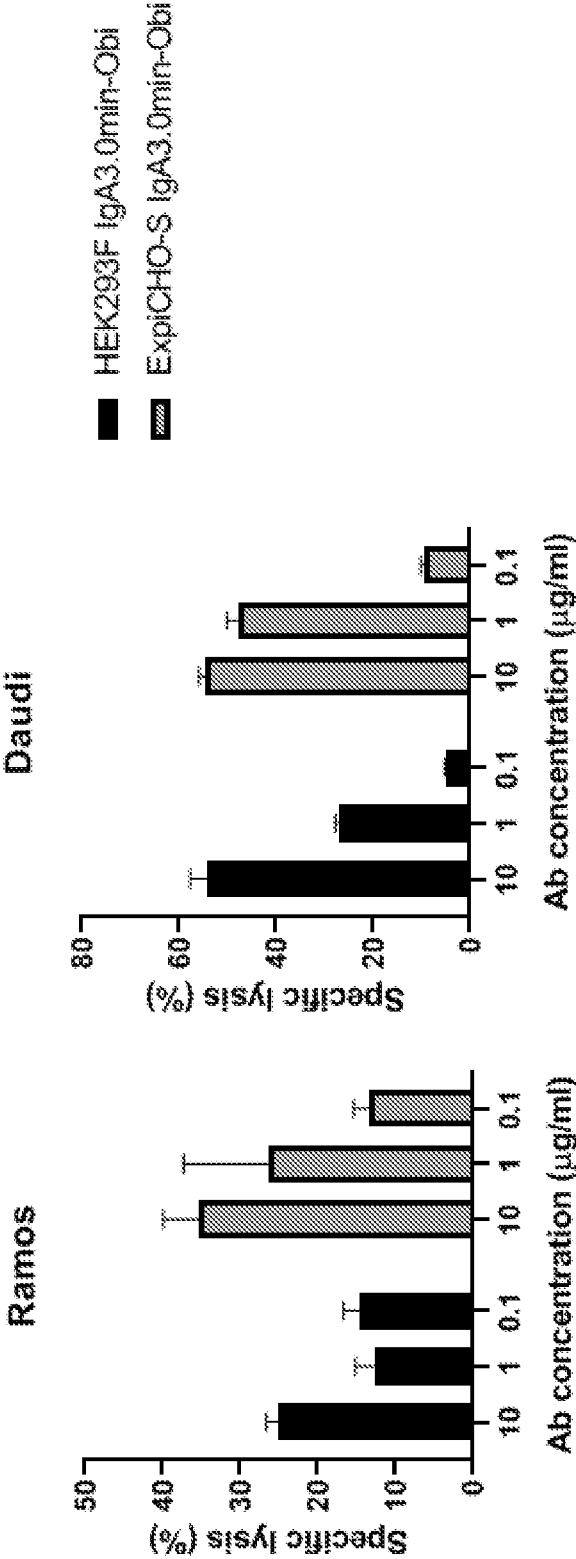
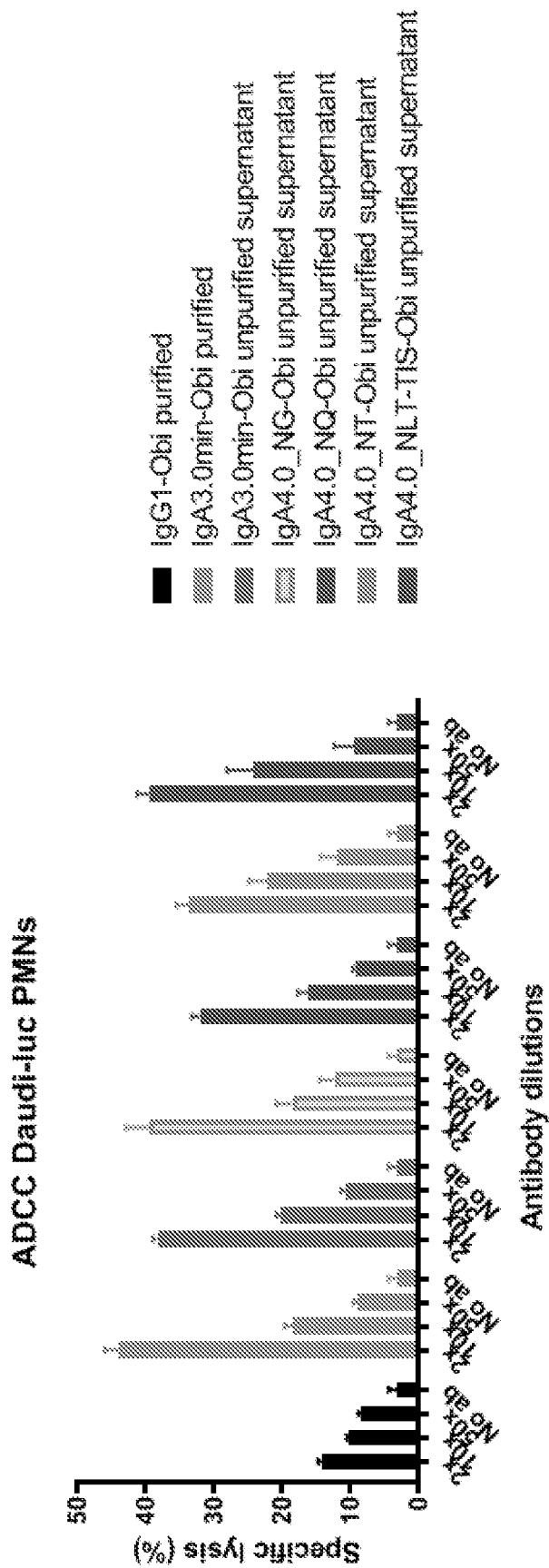


FIG. 16B

FIG. 16C



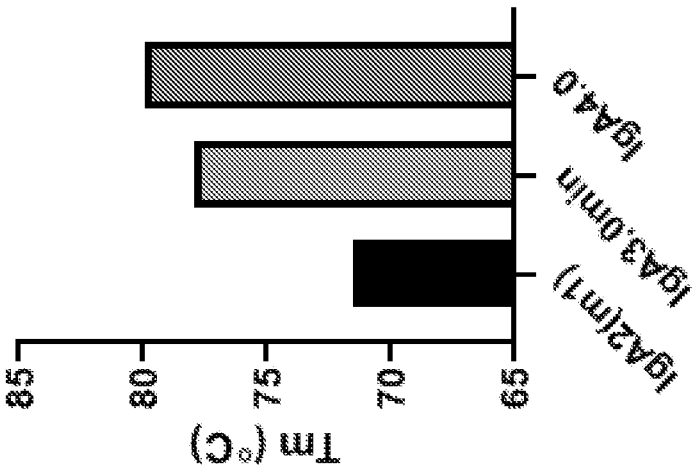


FIG. 17B

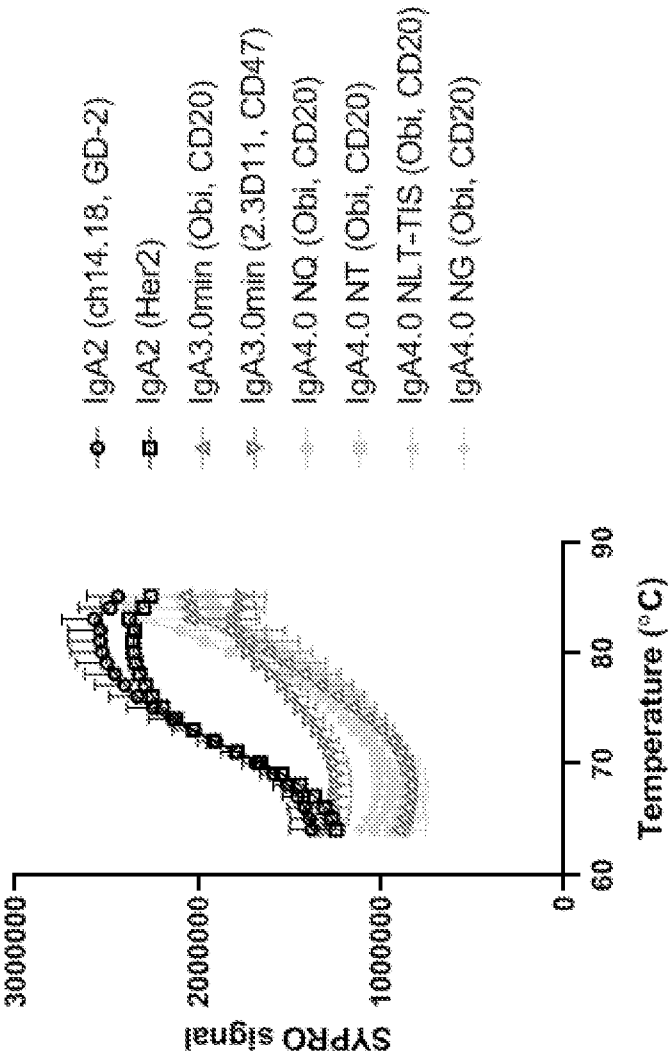


FIG. 17A

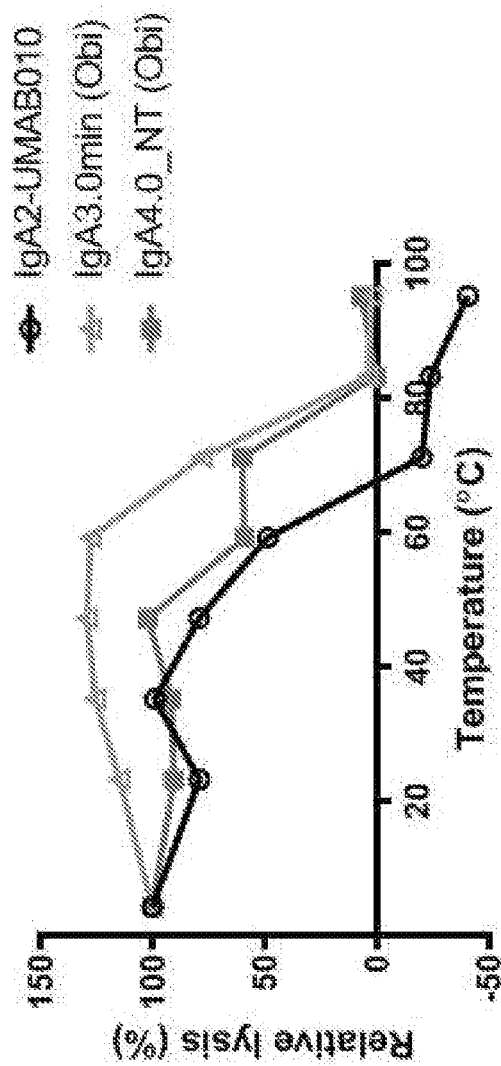


FIG. 17C

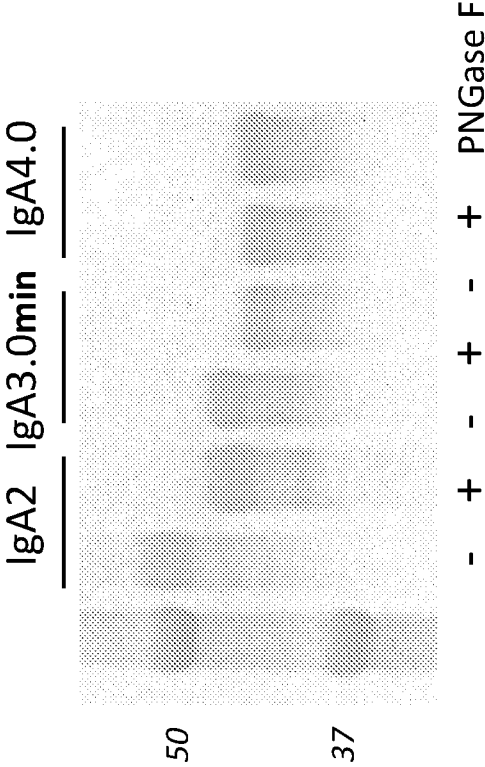


FIG. 18

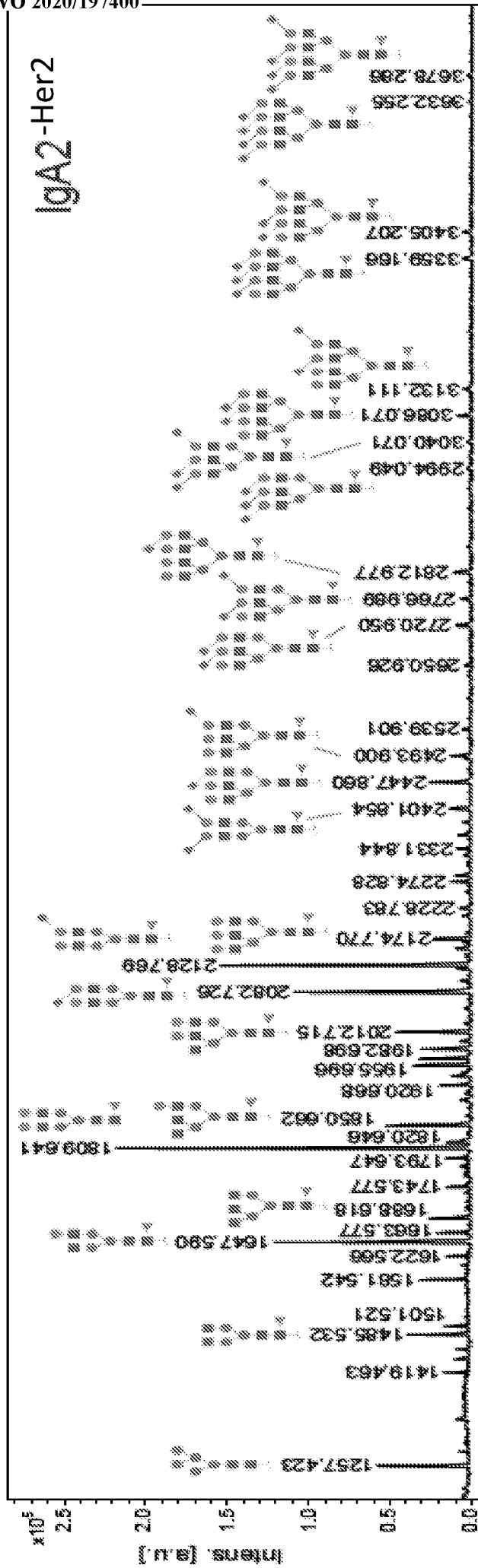


FIG. 19A

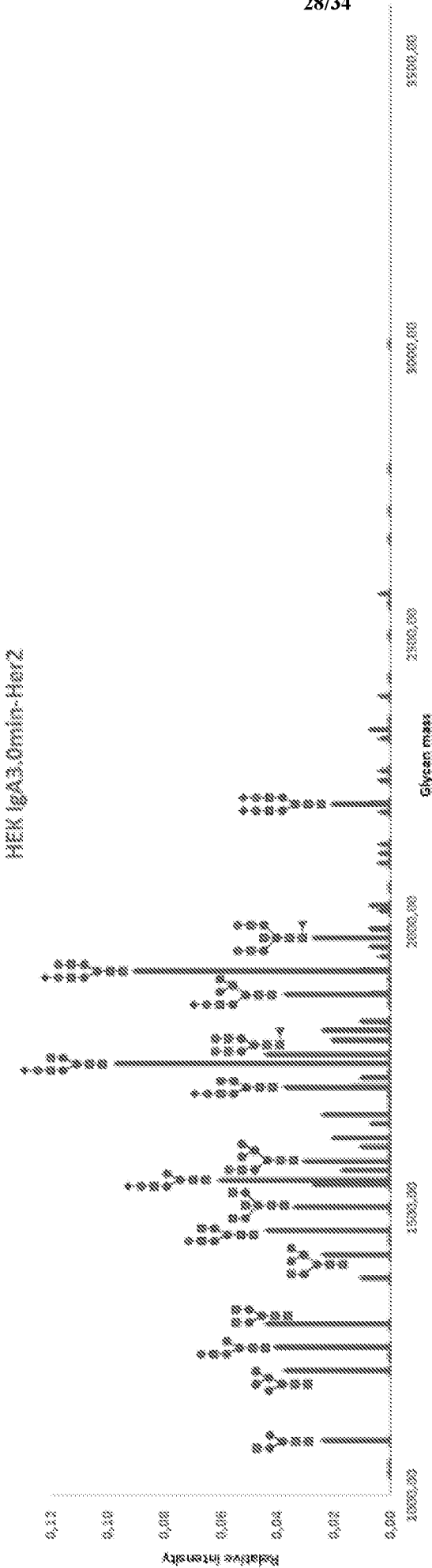


FIG. 19B

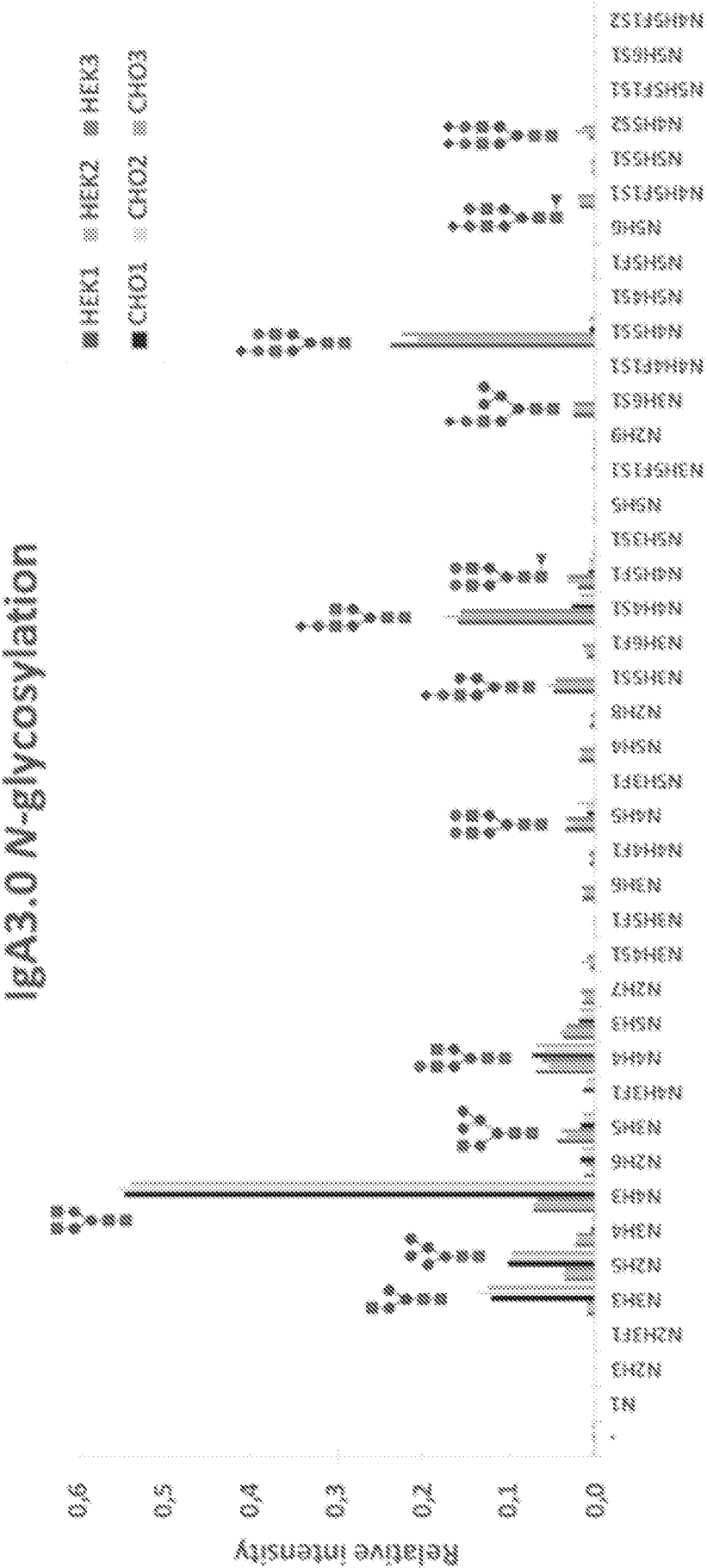


FIG. 19C

IgA4.0-NQ

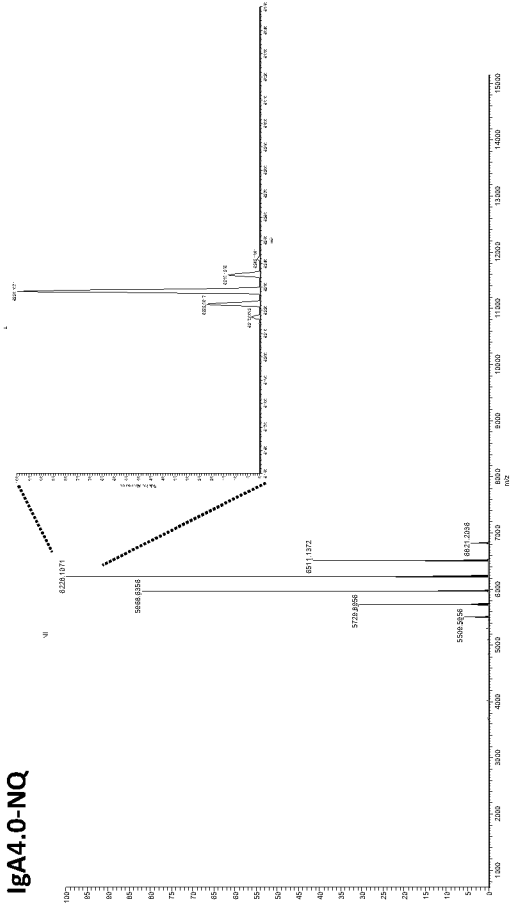


FIG. 19E

IgA4.0-NLT-TIS

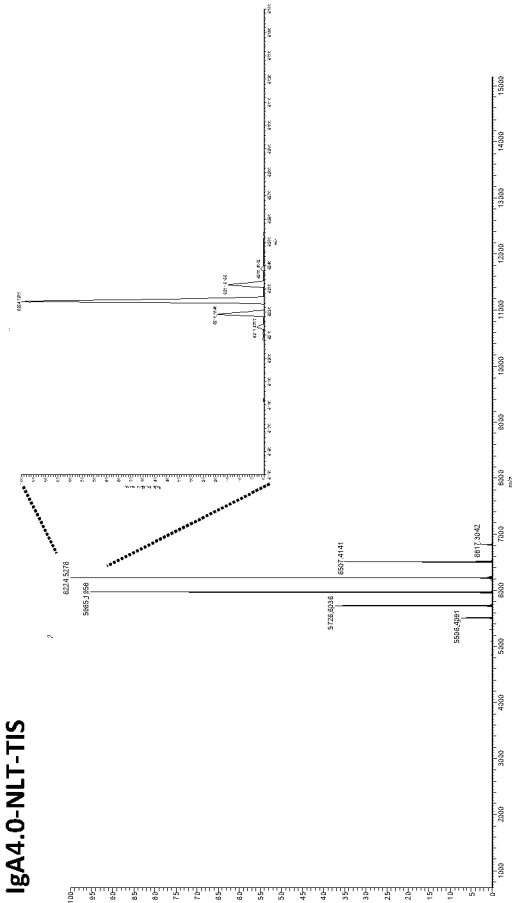


FIG. 19G

IgA4.0-NG

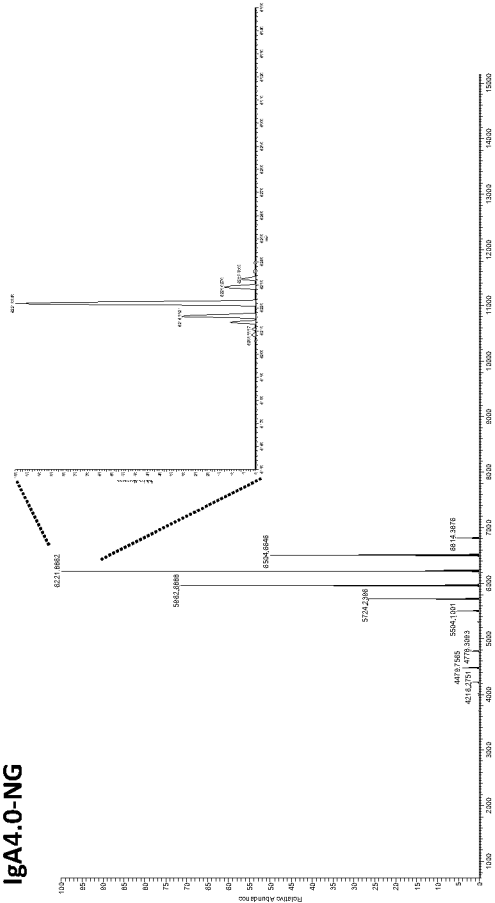


FIG. 19D

IgA4.0-NT

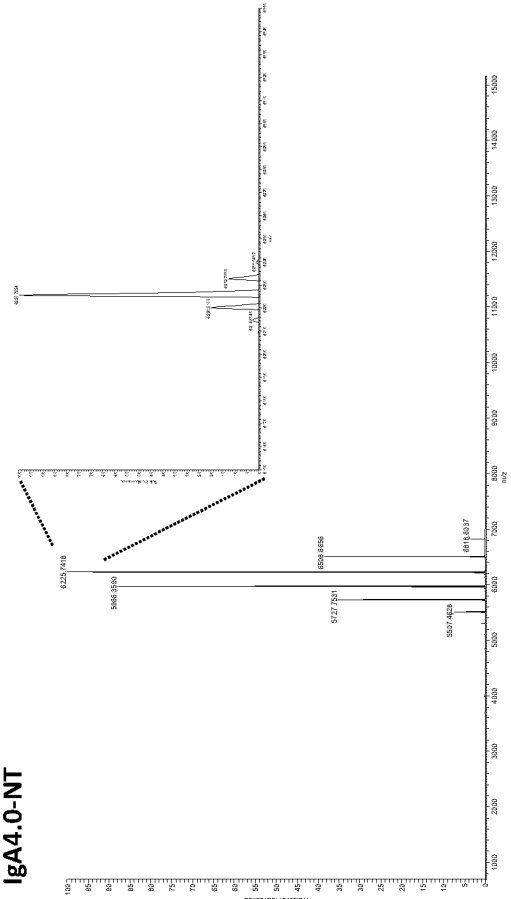


FIG. 19F

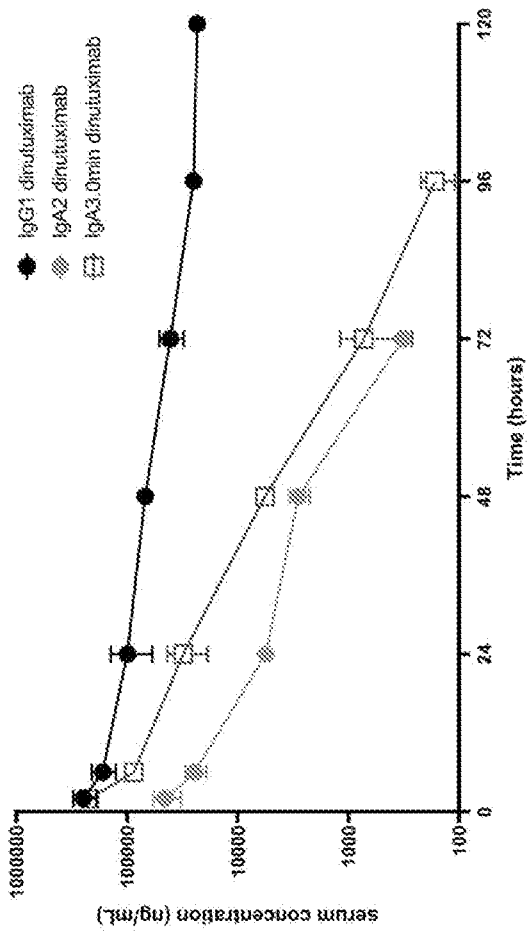


FIG. 20A

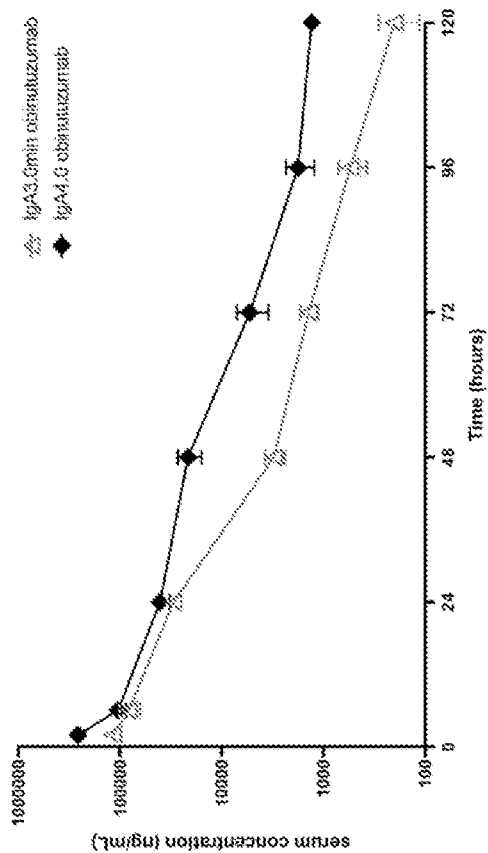


FIG. 20B

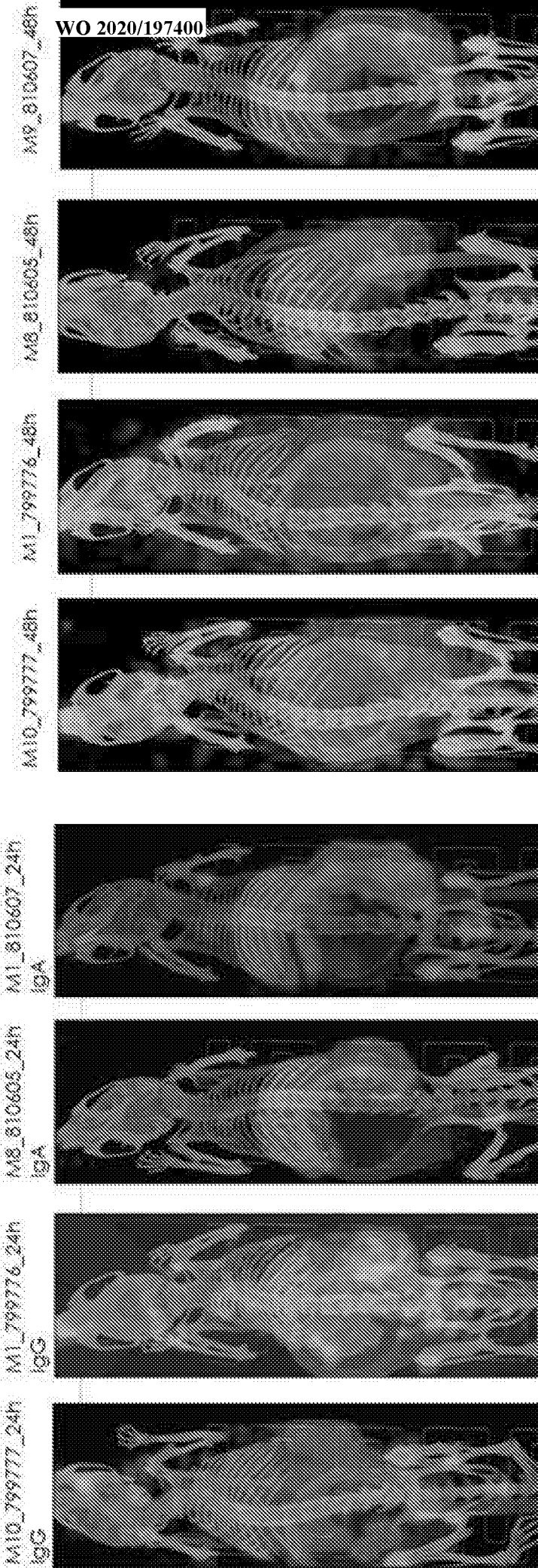


FIG. 21A

FIG. 21B

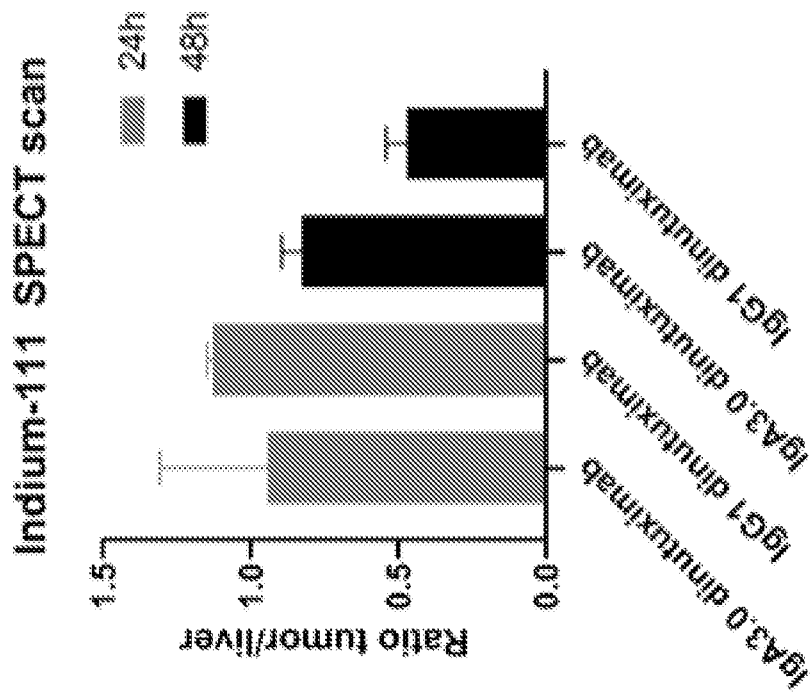


FIG. 22

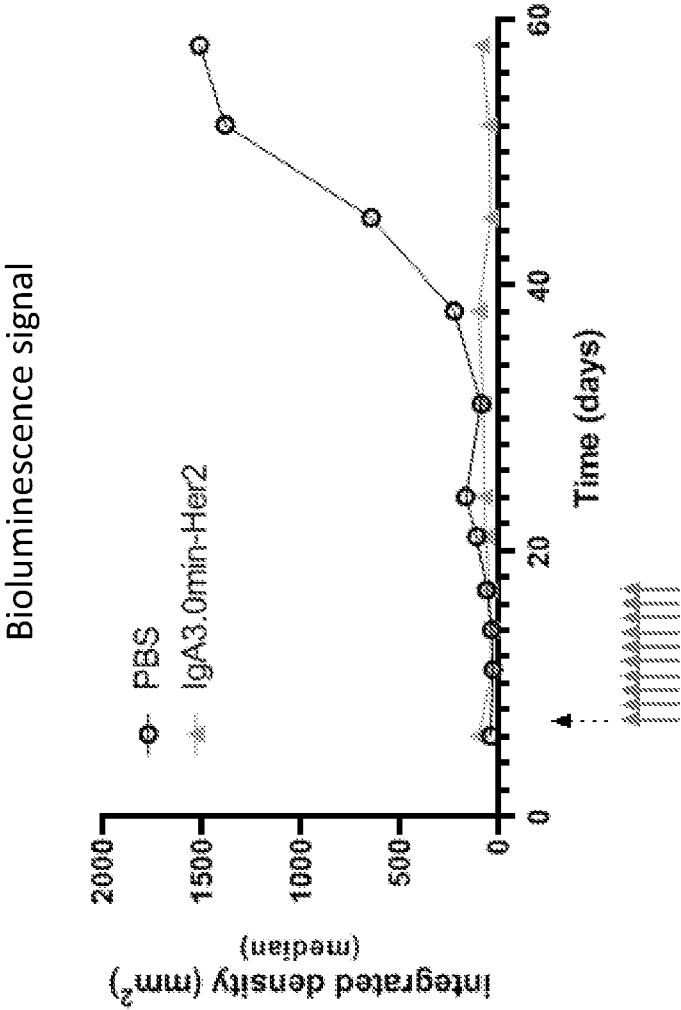


FIG. 23