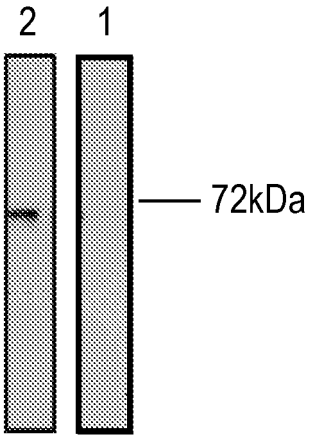
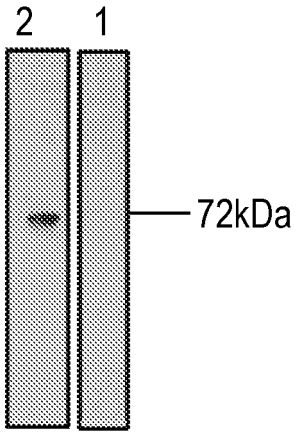
FIG. 1A



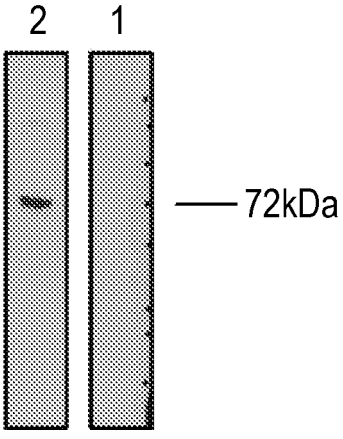
IB: ANTI FLAG

FIG. 1B



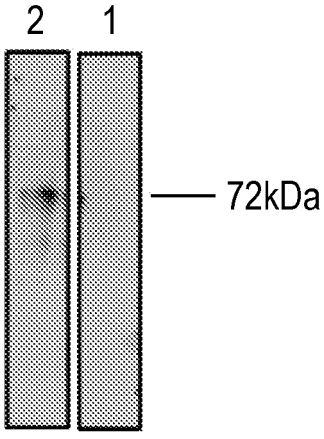
IB: ANTI LSR (Abnova)

FIG. 1C



IB: ANTI LSR (Abcam)

FIG. 1D



IB: ANTI LSR (Sigma)

FIG. 2A

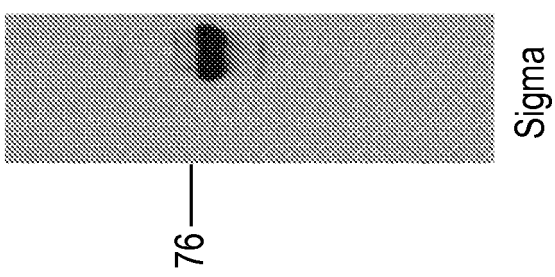


FIG. 2B

1. HEK293T_pIRESpuro3
2. HEK293T_pIRESpuro3_human WT LSR_Flag

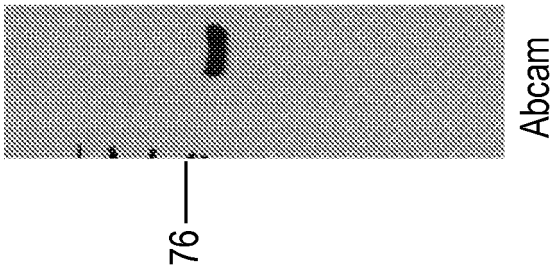


FIG. 2C

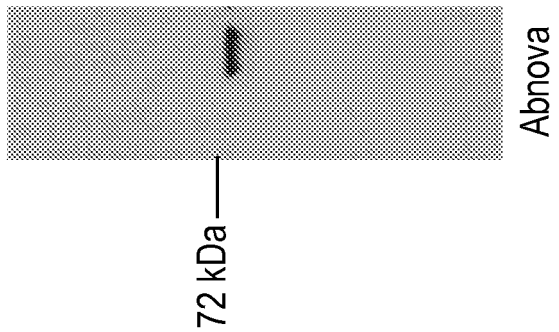
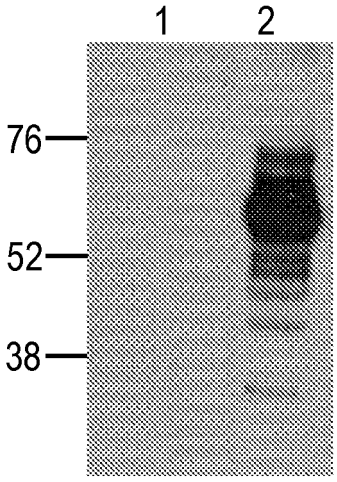
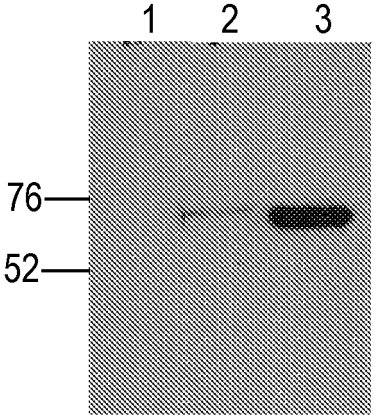


FIG. 3



1. HEK293T_pIRESpuro3
2. HEK293T_pIRESpuro3_human LSR skip4_Flag

FIG. 4



1. HEK293T_pIRESpuro3
2. HEK293T_pIRESpuro3_cyno WT LSR-Flag
3. HEK293T_pIRESpuro3_cyno skip4 LSR_Flag

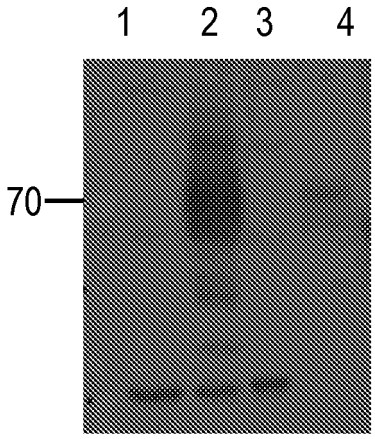
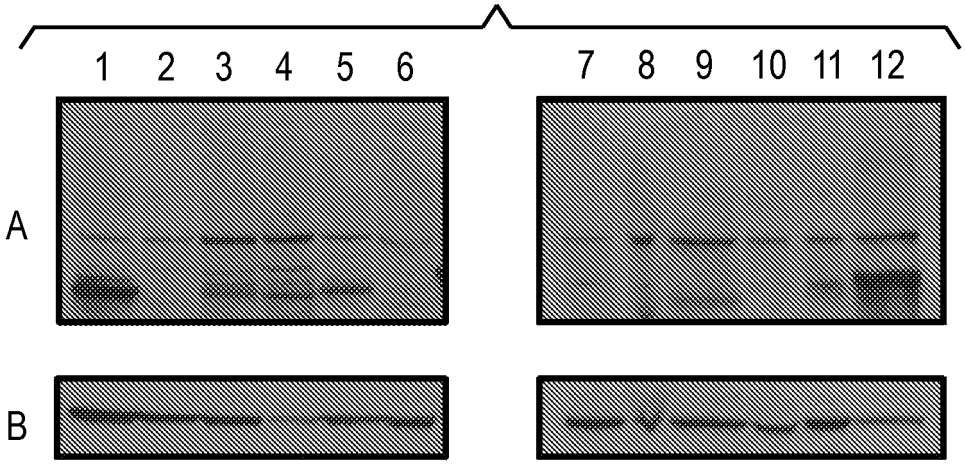


FIG. 5

1. CHO-K1
2. CHO-K1_pcDNA3.1_mouse WT LSR_Flag
3. HEK293_pcDNA3.1
4. HEK293_pcDNA3.1_mouse WT LSR_Flag

FIG. 6



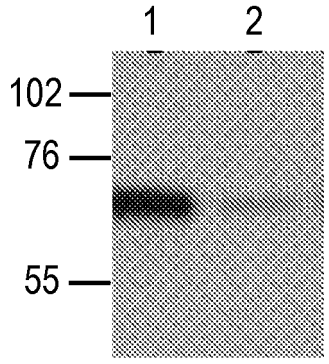


FIG. 7

1. HEK293T_pIRESpuro3_human WT LSR_Flag + scrambled si RNA
2. HEK293T_pIRESpuro3_human WT LSR_Flag+LSR si RNA

FIG. 8A

ANTI FLAG

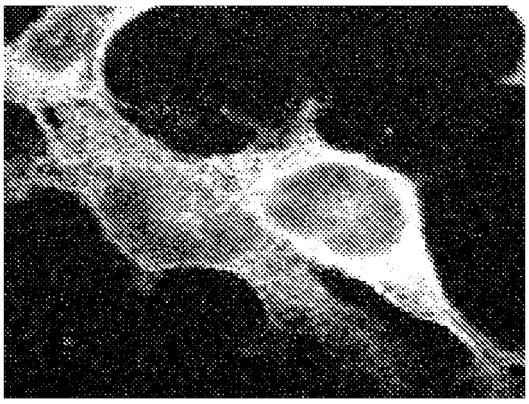


FIG. 8B

ANTI LSR (Abcam)

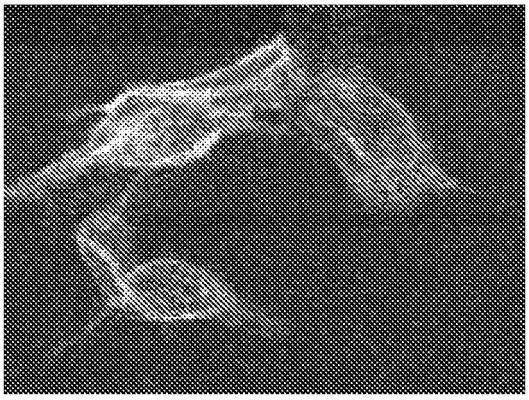


FIG. 8C

ANTI LSR (Abnova)

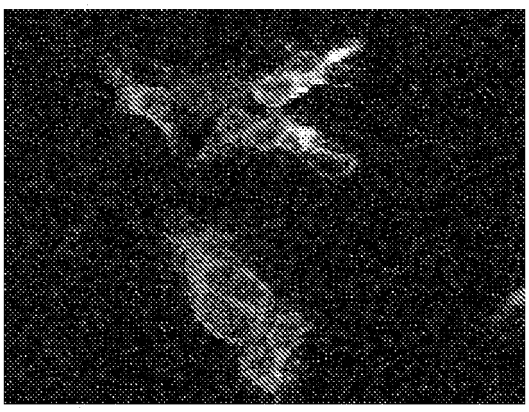
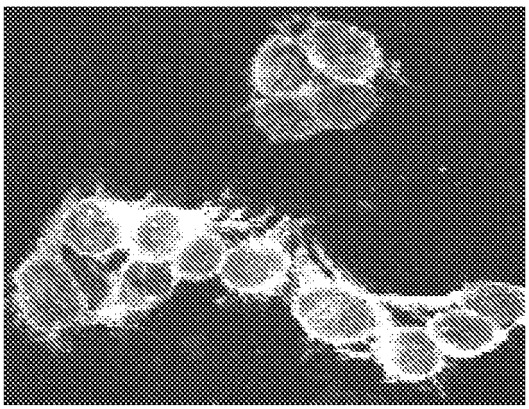


FIG. 8D

ANTI LSR (Sigma)



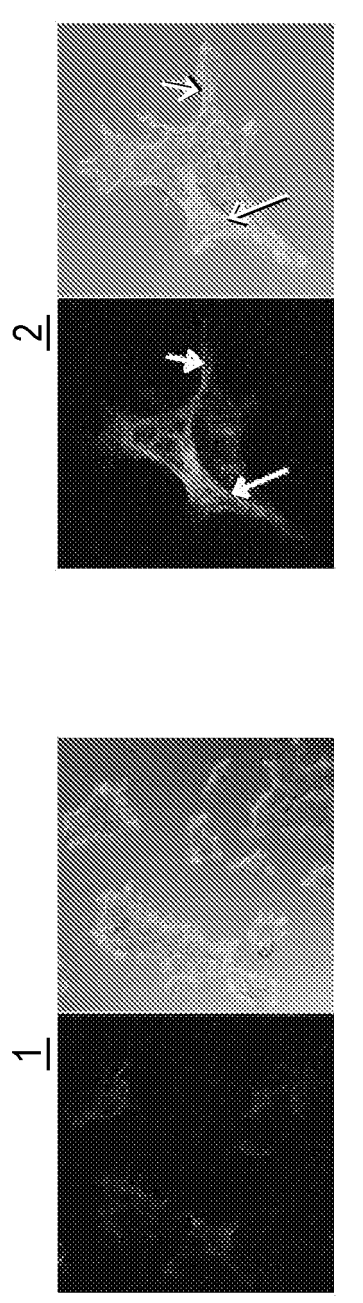


FIG. 9A

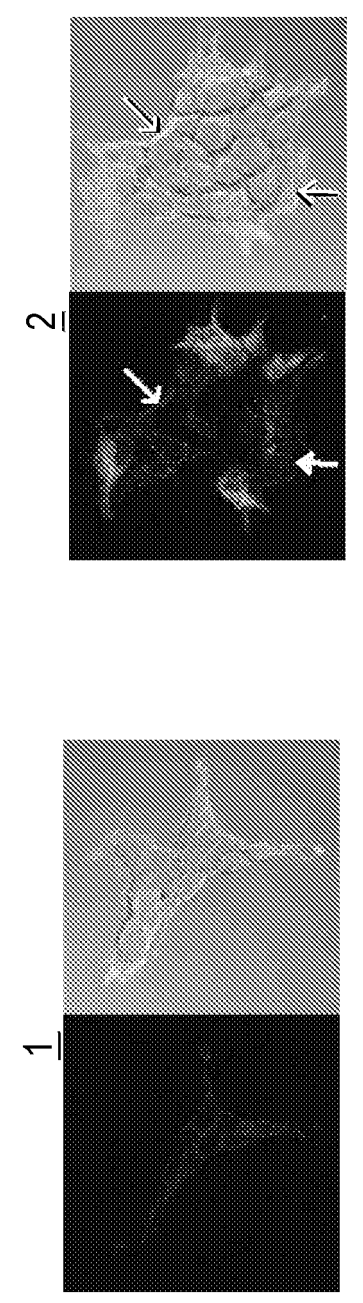


FIG. 9B

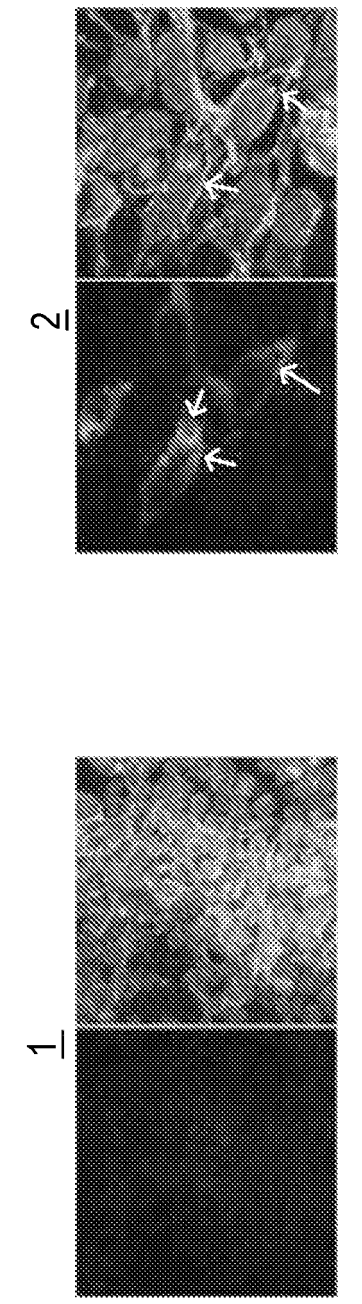


FIG. 9C

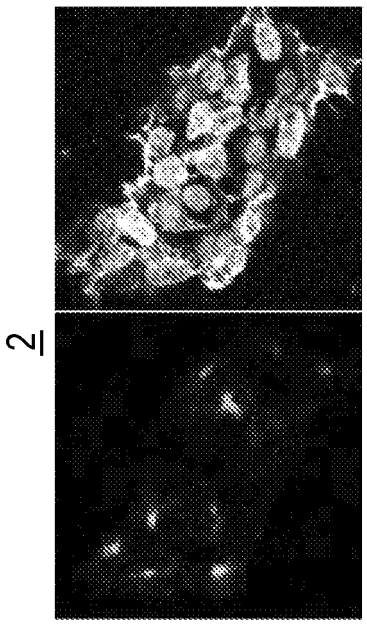


FIG. 10A

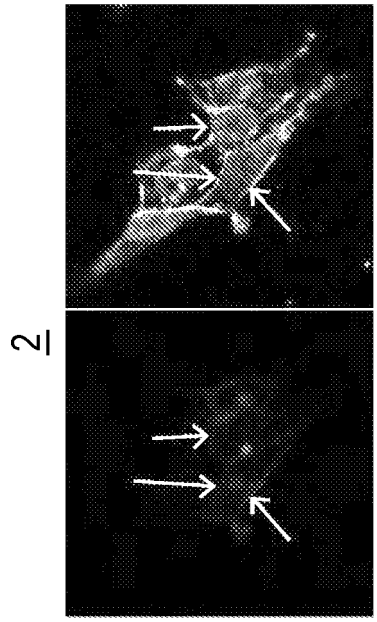


FIG. 10B

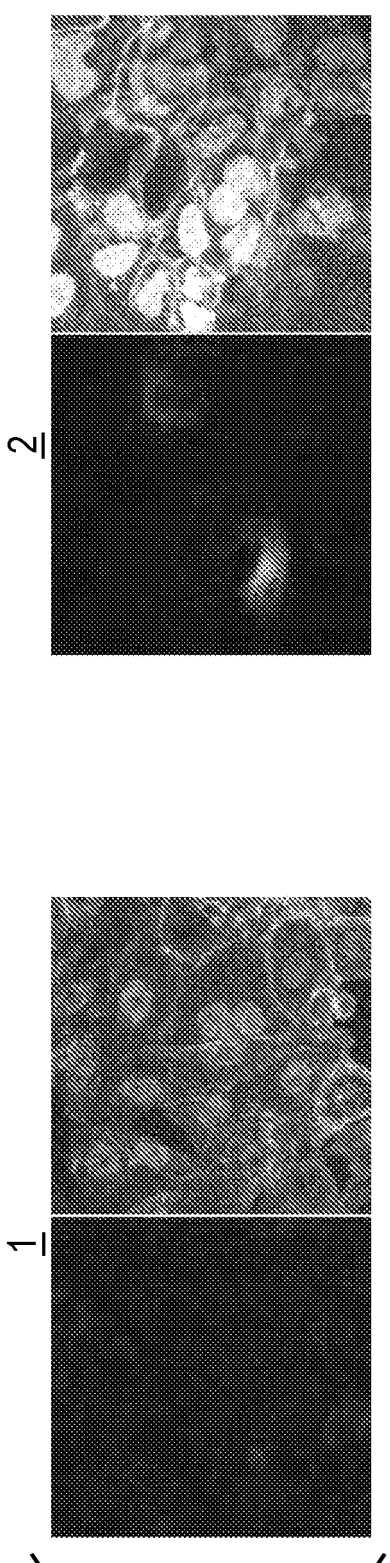


FIG. 11A

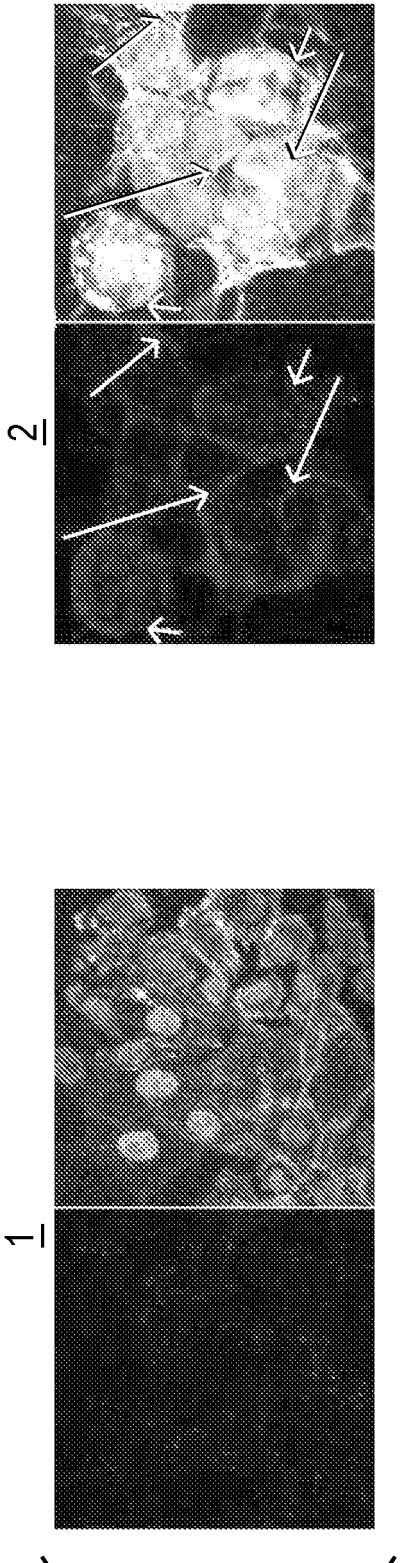


FIG. 11B

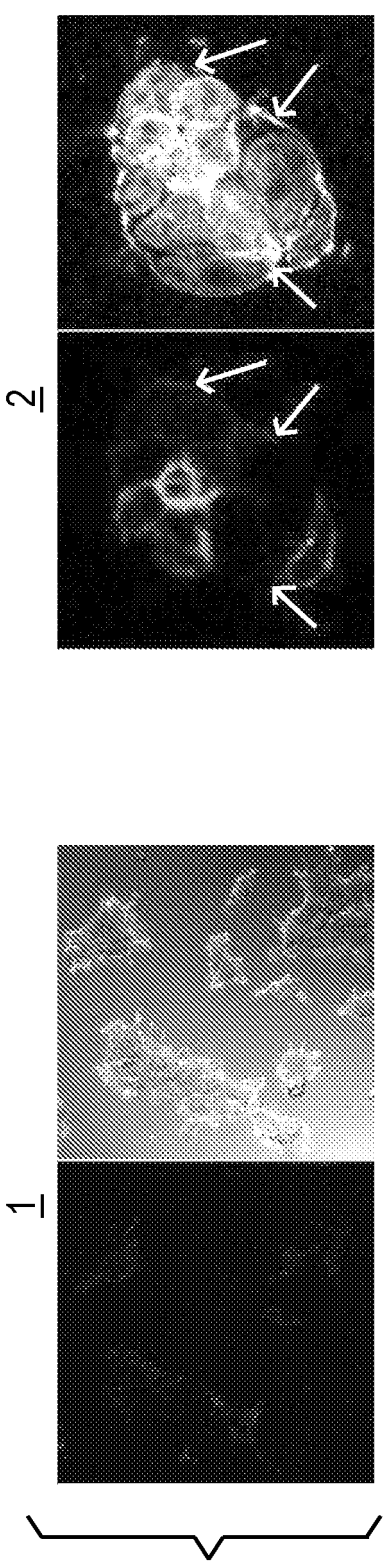


FIG. 12A

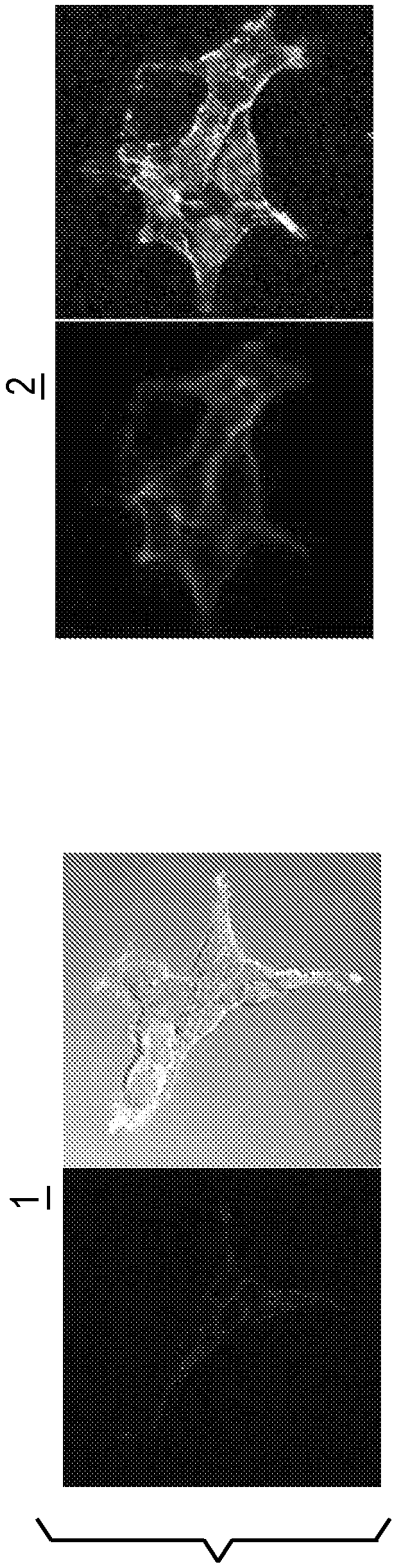


FIG. 12B

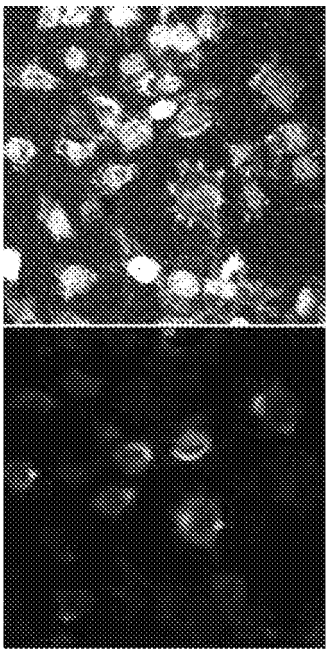


FIG. 13A

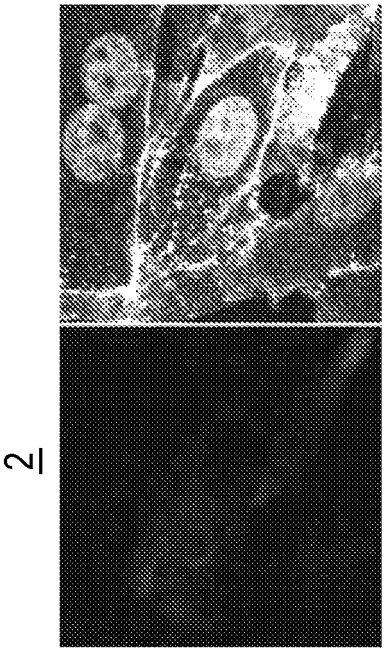


FIG. 13B

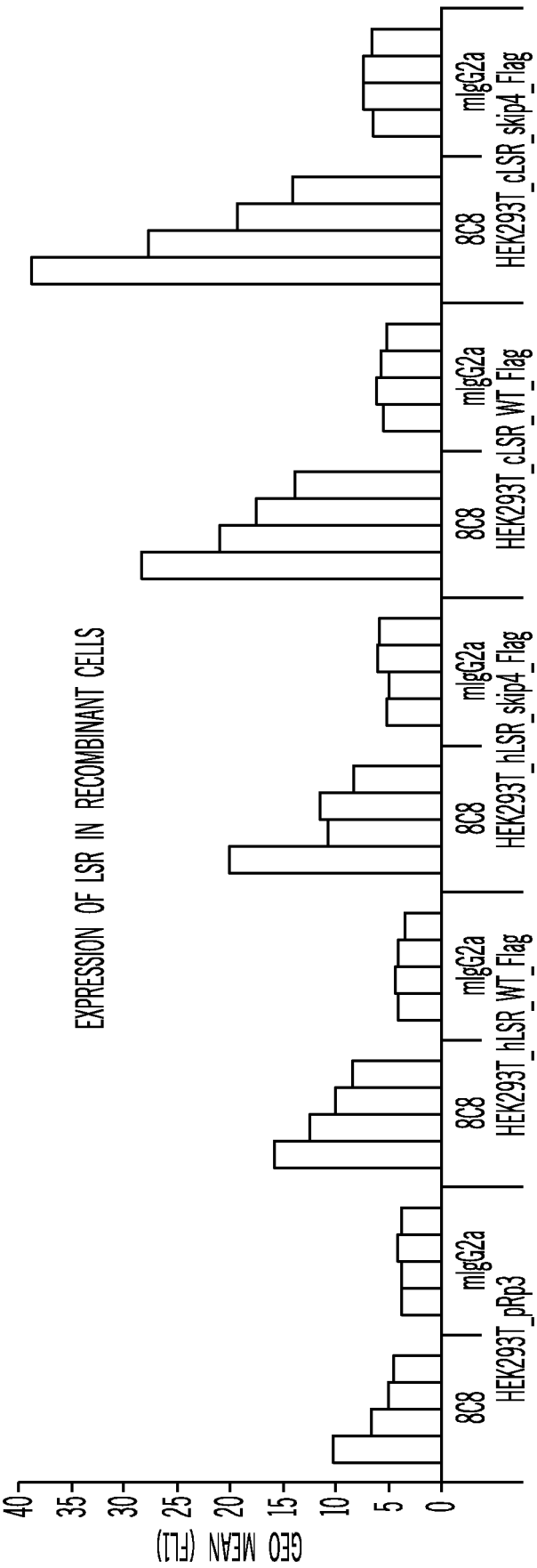

EXPRESSION OF LSR IN RECOMBINANT CELLS
GEO MEAN (FL1)
0
5
10
15
20
25
30
35
40
8C8
mIgG2a
HEK293T_pRp3
HEK293T_hLSR_WT_Flag
HEK293T_hLSR_skip4_Flag
HEK293T_cLSR_WT_Flag
HEK293T_cLSR_skip4_Flag

FIG. 14A

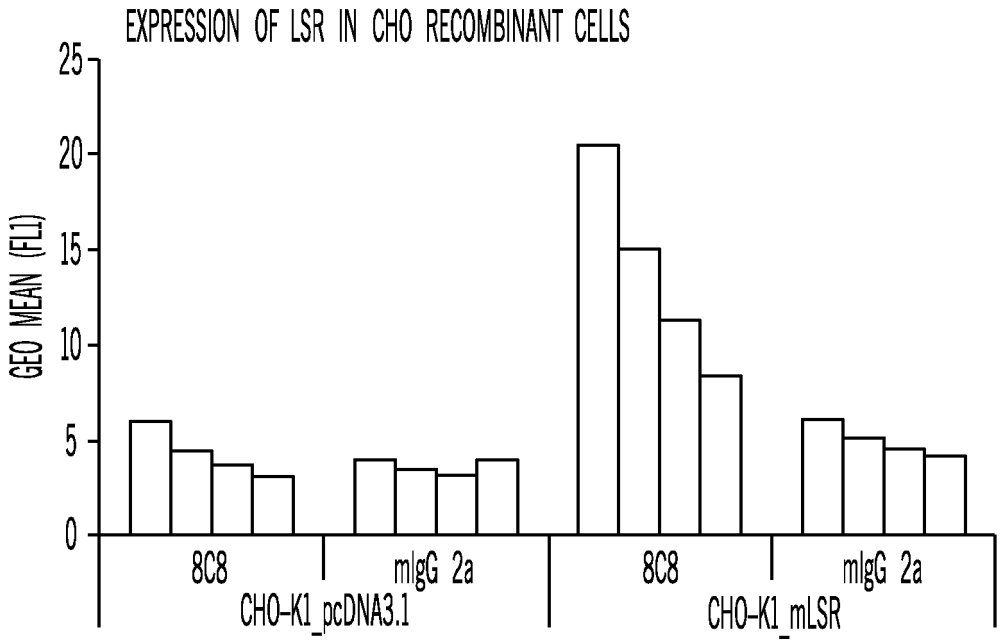

EXPRESSION OF LSR IN CHO RECOMBINANT CELLS
GEO MEAN (FL1)
25
20
15
10
5
0
8C8
mIgG 2a
8C8
mIgG 2a
CHO-K1_pcDNA3.1
CHO-K1_mLSR

FIG. 14B

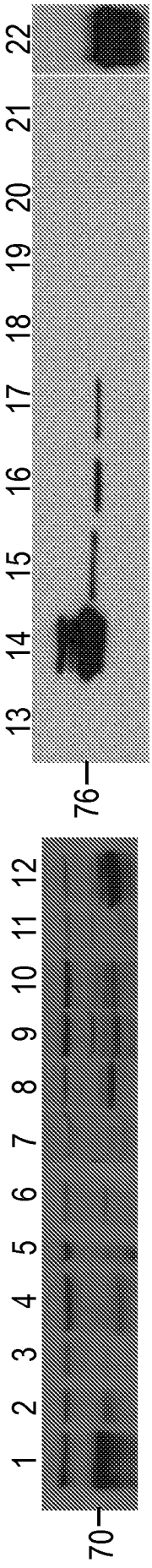
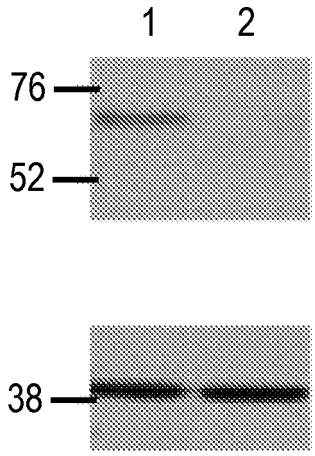


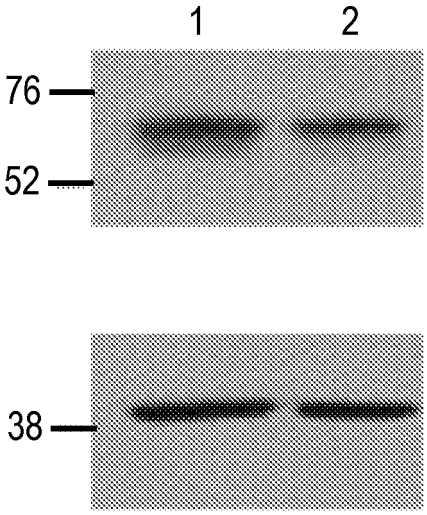
FIG. 15

FIG. 16A



1. HepG2C3A+scrambled si RNA
2. HepG2C3A+LSR si RNA

FIG. 16B



1. HT29+scrambled si RNA
2. HT29+LSR si RNA

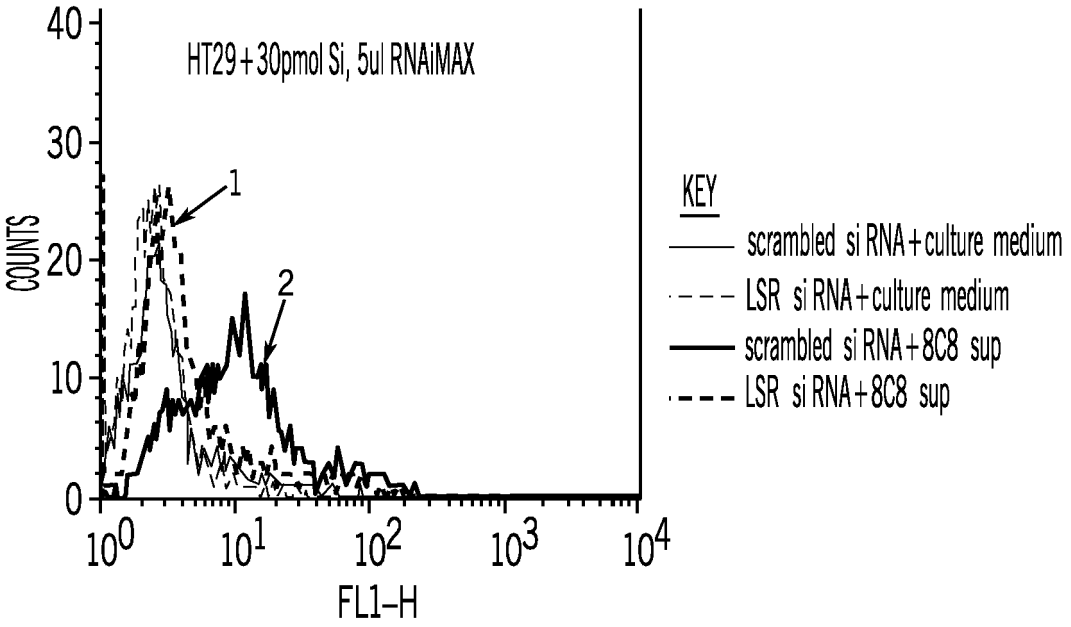


FIG. 17A

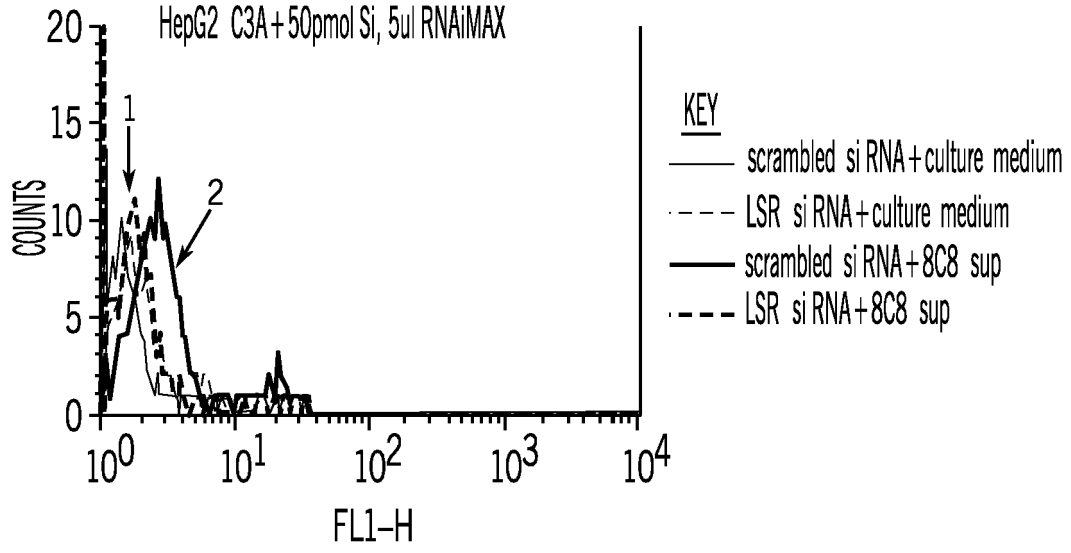


FIG. 17B

SEQ ID NO: 217, 8C8 Heavy chain: DNA sequence (420 bp)
Leader sequence-FR1-**CDR1**-FR2-**CDR2**-FR3-**CDR3**-FR4

*ATGAACTTCGGGCTCAGATTGATTTTCCTTGTCCTTGTTTTAAAAGGTGTCCTGTGT*GACGTGAAGCTCGTGGAGTCTGGGGGAGGCTTAGTGAAGCTTG
GAGGGTCCCTGAAACTCTCCTGTGCAGCCTCT**GGATTCACTTTCAGTAGCTATTACATGTCT**TGGGTTCGCCAGACTCCAGAGAAGAGGCTGGAGTTGG
TCGCA**GCCATTAATAGTAATGGTGGTAGCACCTACTATCCAGACACTGTGAAGGGC**CGATTCACCATCTCCAGAGACAATGCCAAGAACACCCTGTACCT
GCAAATGAGCAGTCTGAAGTCTGAGGACACAGCCTTGTATTACTGTGCAAGA**CATGATTACTACGGTAGTAGCTTTGCTATGGACTAC**TGGGGTCAAGG
AACCTCAGTCACCGTCTCCTCA

SEQ ID NO: 218, 8C8 Heavy chain: Amino acids sequence (140 AA)
Leader sequence-FR1-**CDR1**-FR2-**CDR2**-FR3-**CDR3**-FR4

*MNFGLRLIFLVLVLKGVLC*DVKLVESGGGLVKLGGSLKLSCAAS**GFTFSSYYMS**WVRQTPEKRLELVA**AINSNGGSTYYPDTVKG**RFTISRDNAKNTLYLQMSS
LKSEDTALYYCAR**HDYYGSSFAMDY**WGQGTSVTVSS

SEQ ID NO: 224, 8C8 Heavy chain-**CDR1** DNA
GGATTCACTTTCAGTAGCTATTACATGTCT

SEQ ID NO: 225, 8C8 Heavy chain-**CDR2** DNA
GCCATTAATAGTAATGGTGGTAGCACCTACTATCCAGACACTGTGAAGGGC

SEQ ID NO: 226, 8C8 Heavy chain-**CDR3** DNA
CATGATTACTACGGTAGTAGCTTTGCTATGGACTAC

SEQ ID NO: 227, 8C8 Heavy chain **CDR1** amino acid
GFTFSSYYMS

SEQ ID NO: 228, 8C8 Heavy chain **CDR2** amino acid
AINSNGGSTYYPDTVKG

SEQ ID NO: 229, 8C8 Heavy chain **CDR3** amino acid
HDYYGSSFAMDY

FIG. 18A

SEQ ID NO: 219, 8C8 Light chain: DNA sequence (381 bp)
Leader sequence-FR1-**CDR1**-FR2-**CDR2**-FR3-**CDR3**-FR4

*ATGATGTCCTCTGCTCAGTTCCTTGGTCTCCTGTTGCTCTGTTTTCAAGGTACCAGATGT*GATATCCAGATGACACAGACTACATCCTCCCTGTCTGCCTCTCT
GGGAGACAGAGTCACCATCAGTTGC**AGGGCAAGTCAGGACATTAGCAATTATTTAAAC**TGGTATCAGCAGAAACCAGATGGAACTGTTAAACTCCTGA
TCTAC**TACACATCAAGATTACACTCA**GGAGTCCCATCAAGGTTCAGTGGCAGTGGGTCTGGGACAGATTATTCTCTCACTATTAGCAACCTGGAACAAGA
AGATATTGCCACTTACTTTTGC**CAACAGGATAGTAAGCATCCGTGGACG**TTCGGTGGAGGCACCAAGCTGGAAATCAAA

SEQ ID NO: 220, 8C8 Light chain: Amino acids sequence (127 AA)
Leader sequence-FR1-**CDR1**-FR2-**CDR2**-FR3-**CDR3**-FR4

*MMSSAQFLGLLLLCFQGTR*CDIQMTQTTSSLSASLGDRVTISC**RASQDISNYLN**WYQQKPDGTVKLLIY**YTSRLHS**GVPSRFSGSGSGTDYSLTISNLEQEDIAT
YFC**QQDSKHPWT**FGGGTKLEIK

SEQ ID NO: 230, 8C8 Light **CDR1** DNA sequence
AGGGCAAGTCAGGACATTAGCAATTATTTAAAC

SEQ ID NO: 231, 8C8 Light **CDR2** DNA sequence
TACACATCAAGATTACACTCA

SEQ ID NO: 232, 8C8 Light **CDR3** DNA sequence
CAACAGGATAGTAAGCATCCGTGGACG

SEQ ID NO: 233, 8C8 Light chain **CDR1** amino acid sequence
RASQDISNYLN

SEQ ID NO: 234, 8C8 Light chain **CDR2** amino acid sequence
YTSRLHS

SEQ ID NO: 235, 8C8 Light chain **CDR3** amino acid sequence
QQDSKHPWT

FIG. 18B

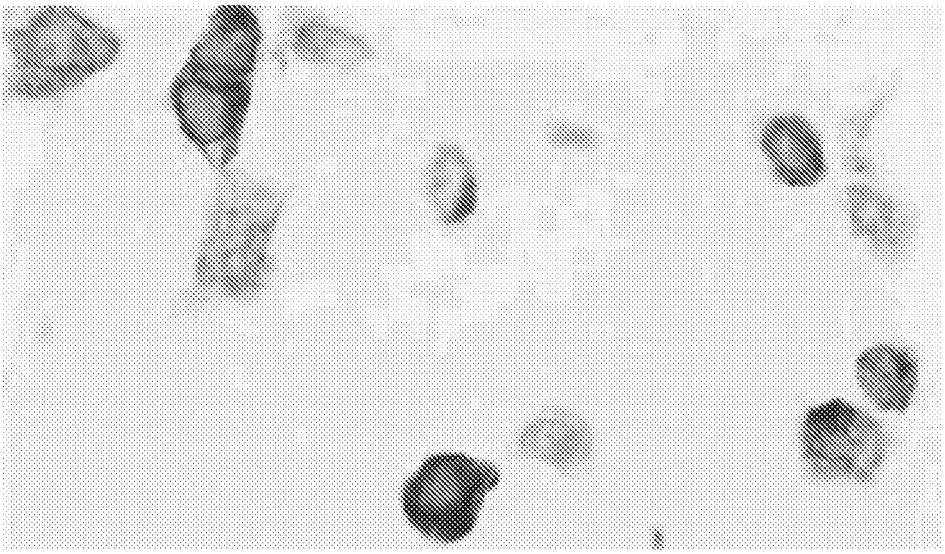


FIG. 19A

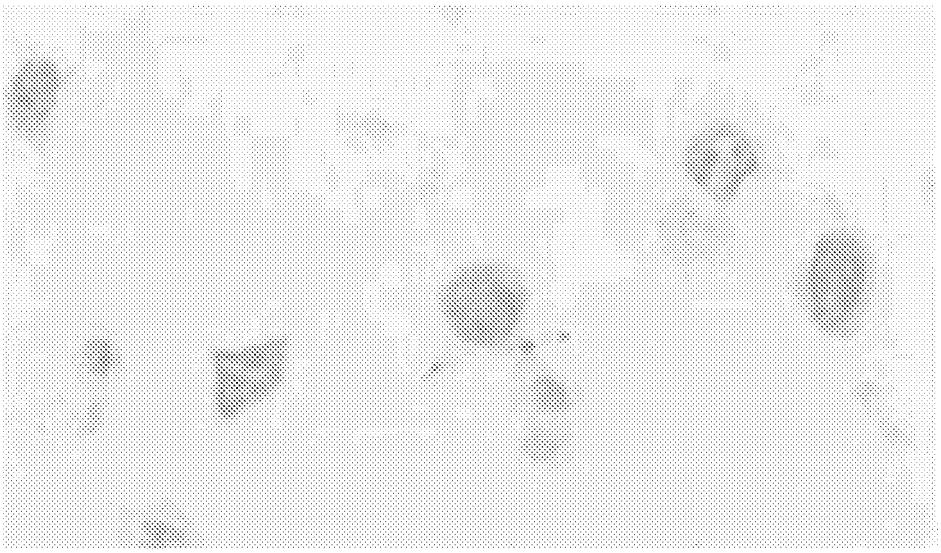


FIG. 19B

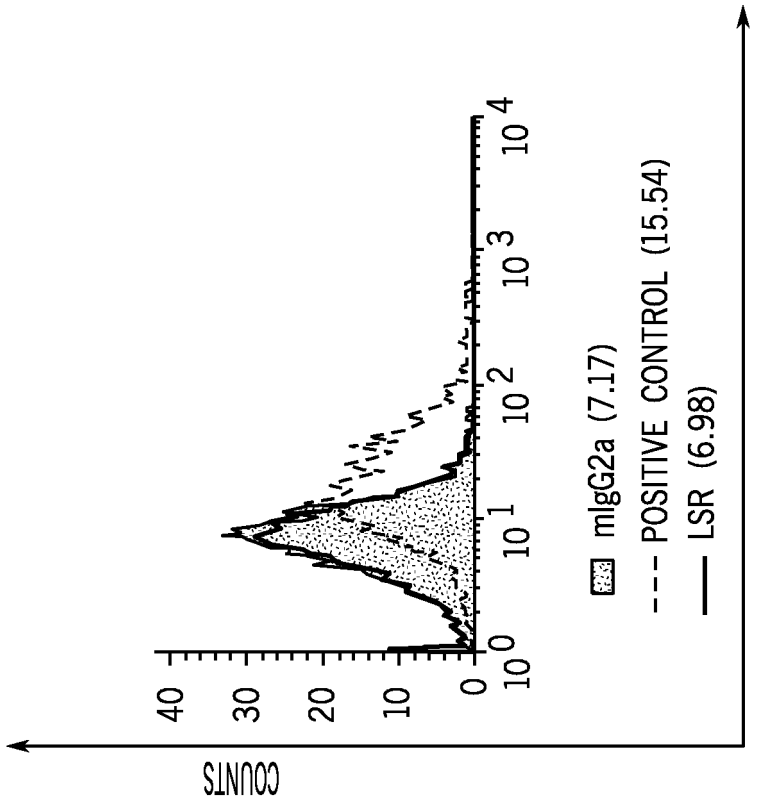


FIG. 20B

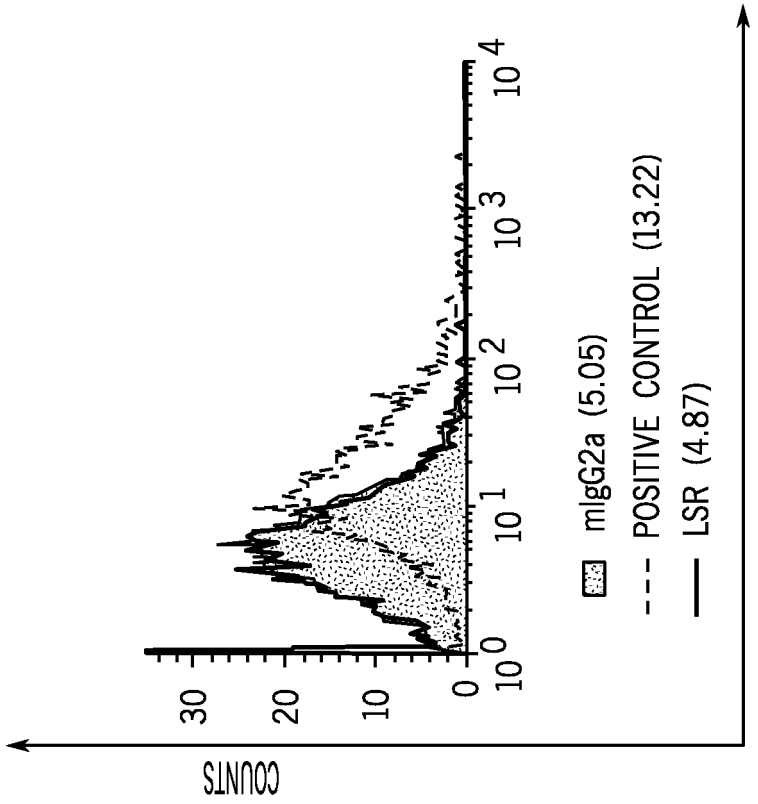


FIG. 20A

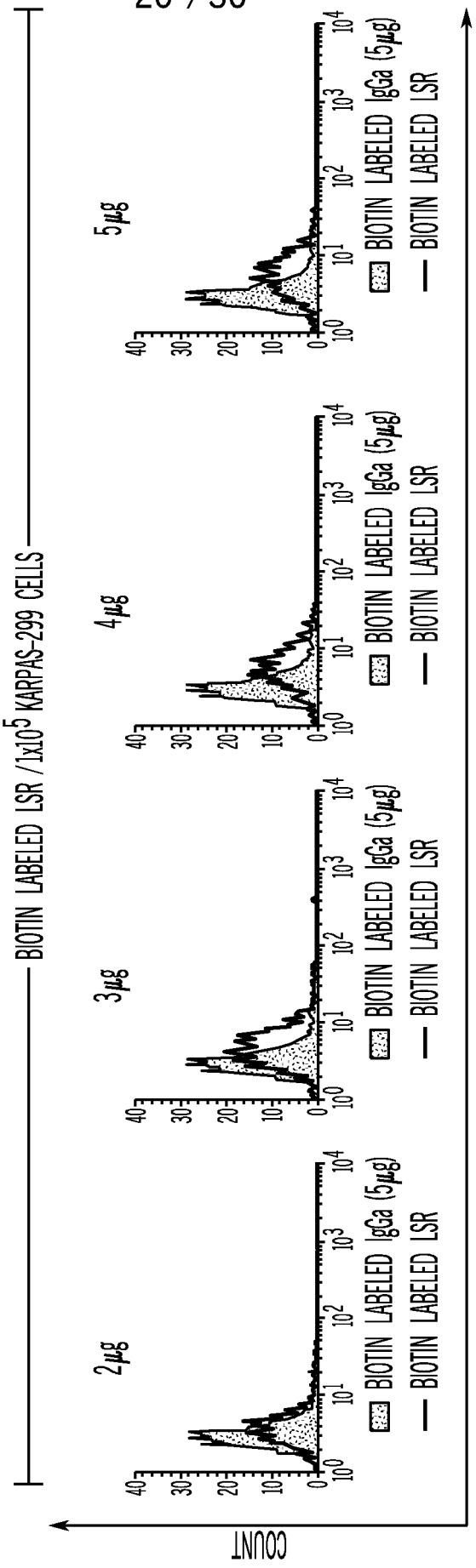

BIOTIN LABELED LSR /1x10^5 KARPAS-299 CELLS
2μg
3μg
4μg
5μg
BIOTIN LABELED IgGa (5μg)
BIOTIN LABELED LSR
COUNT
PE

FIG. 21A

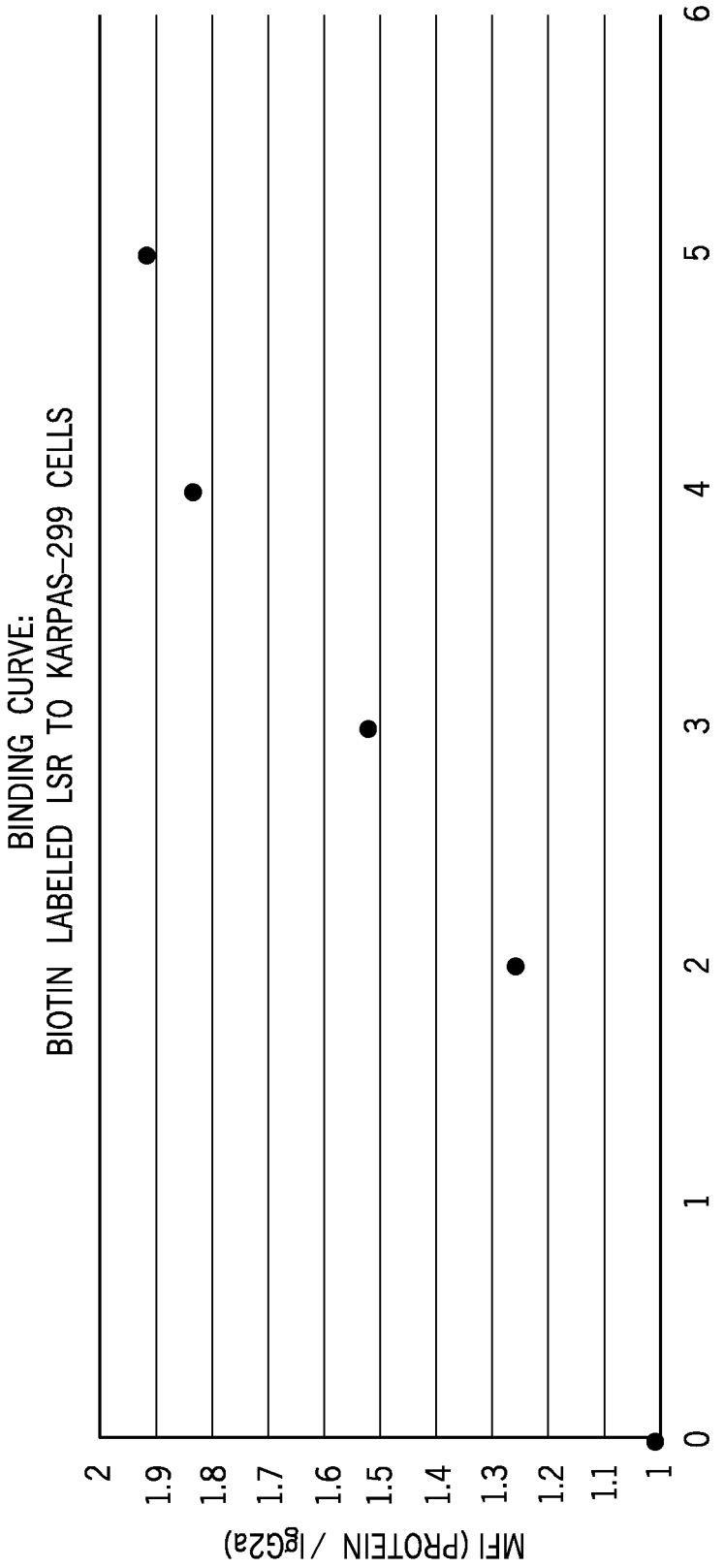

BINDING CURVE:
BIOTIN LABELED LSR TO KARPAS-299 CELLS
MFI (PROTEIN / IgG2a)
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0
1
2
3
4
5
6
LSRμg/10^4 CELLS

FIG. 21B

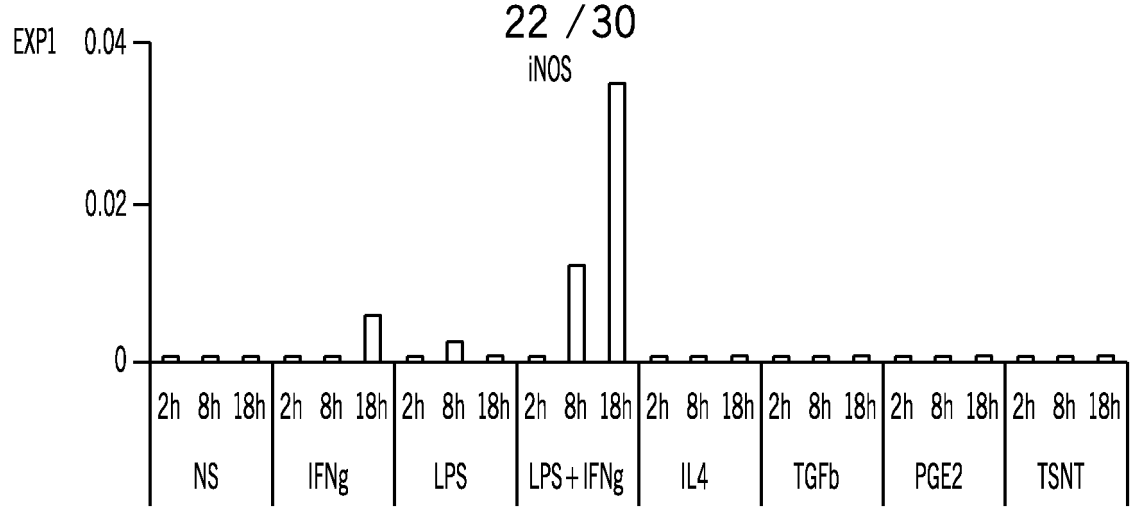


FIG. 22A

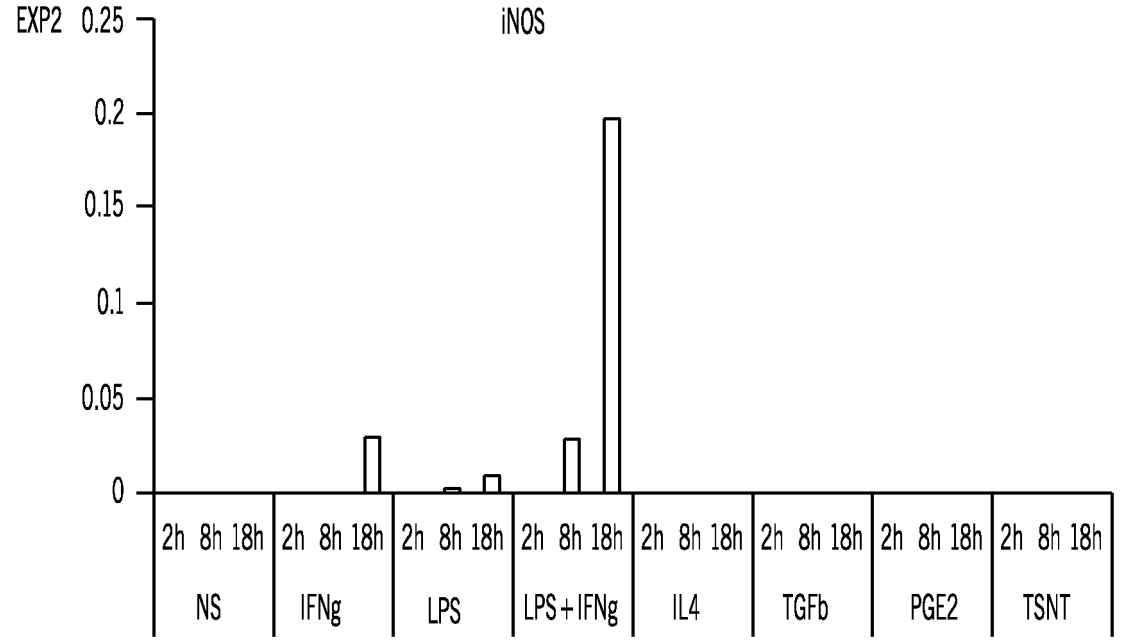


FIG. 22B

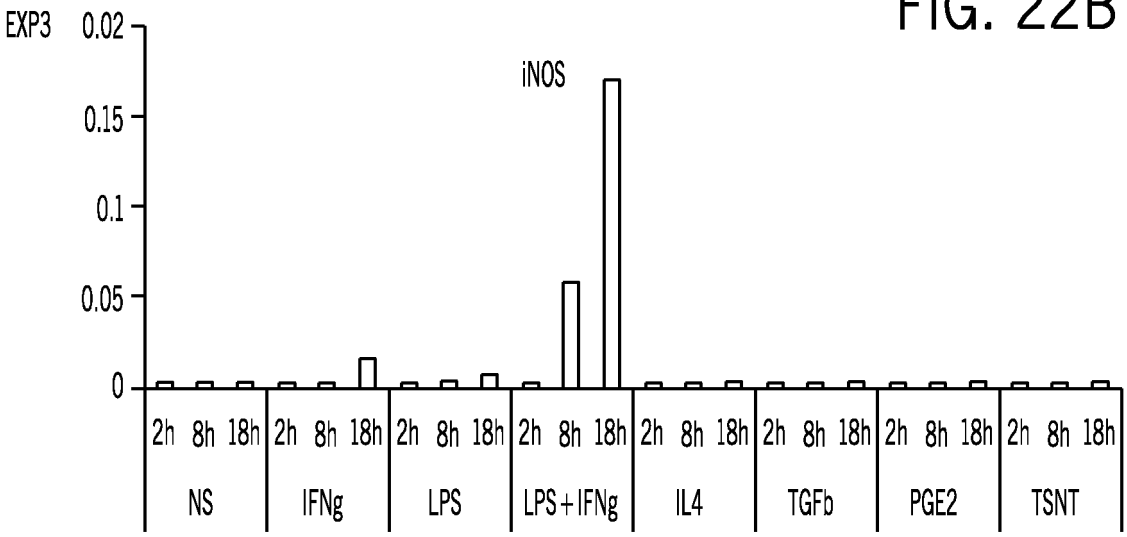


FIG. 22C

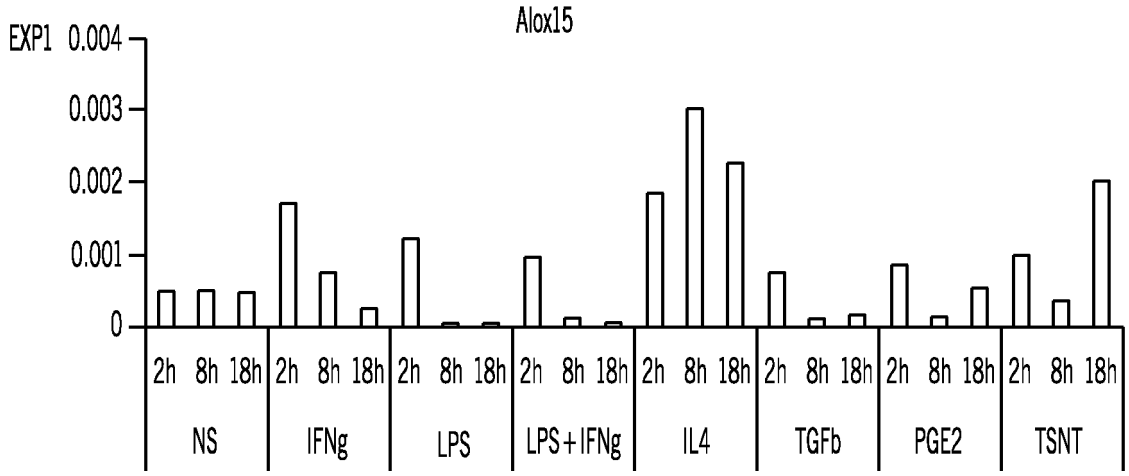


FIG. 23A

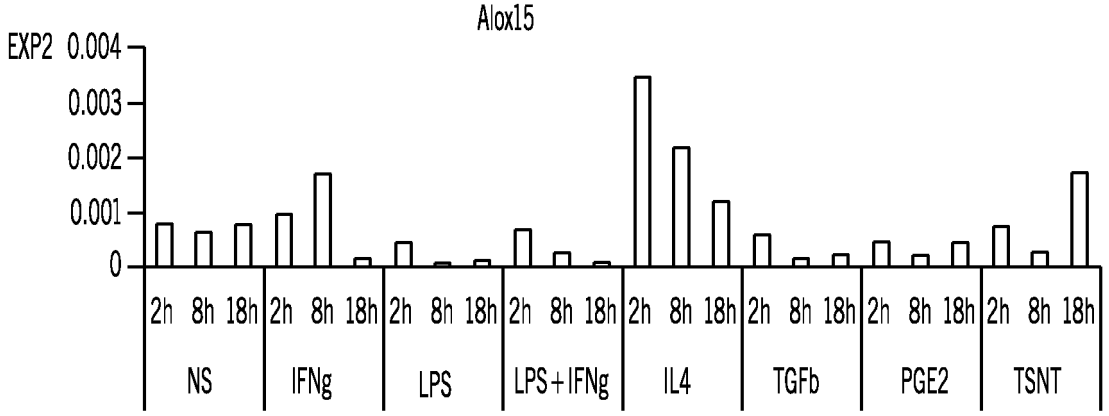


FIG. 23B

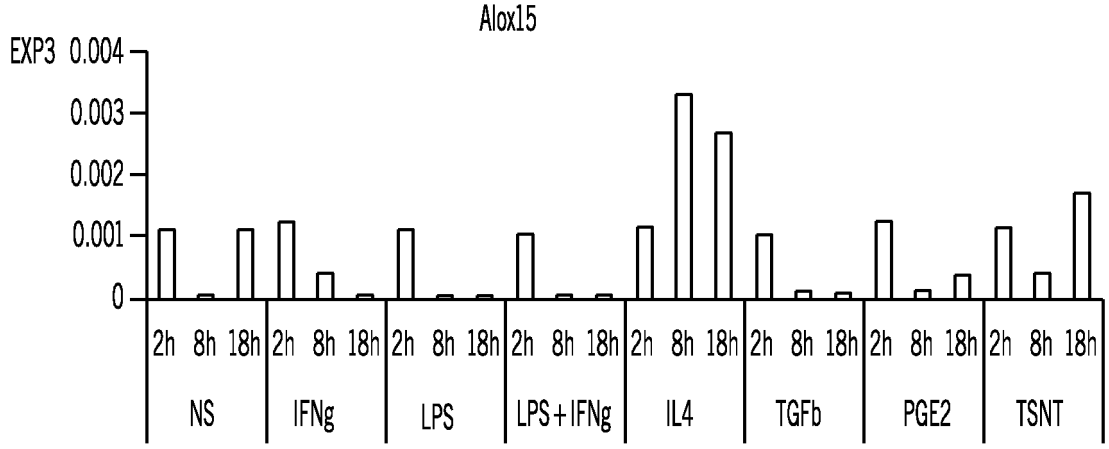


FIG. 23C

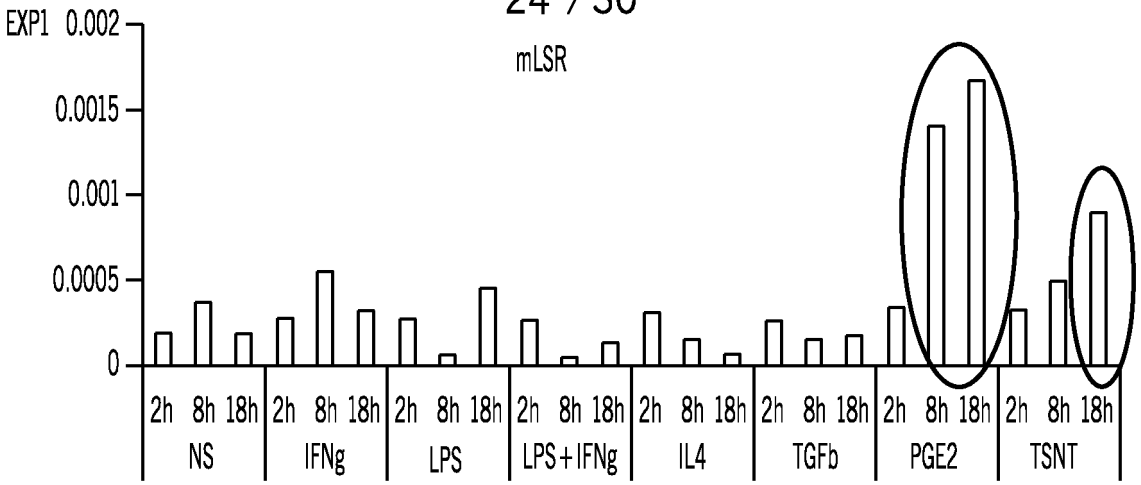


FIG. 24A

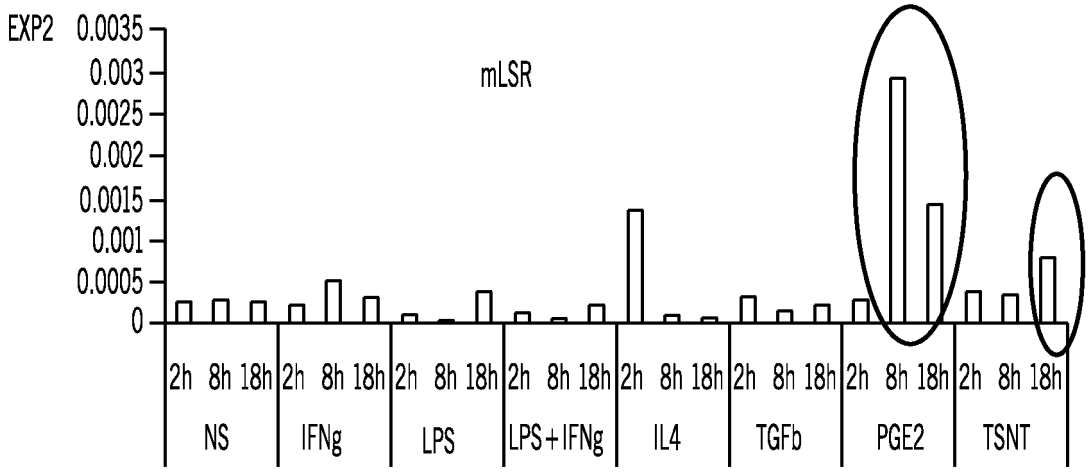


FIG. 24B

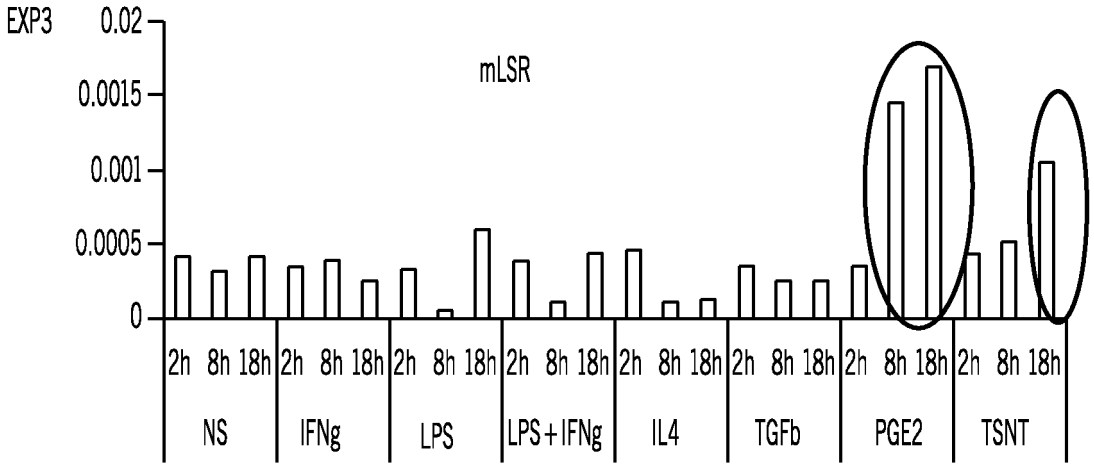


FIG. 24C

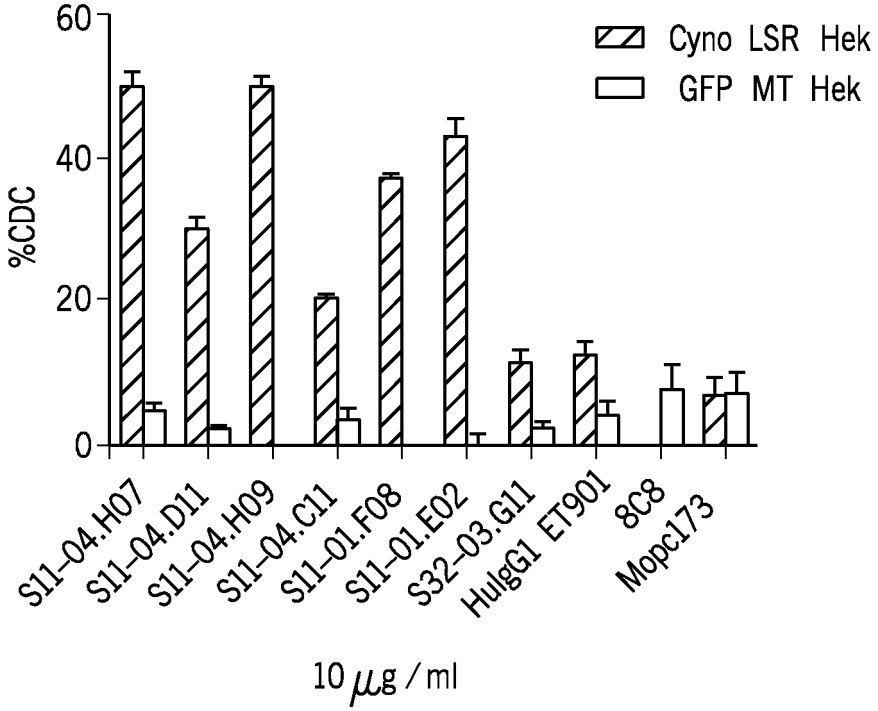

60
40
20
0
%CDC
Cyno LSR Hek
GFP MT Hek
S11-04.H07
S11-04.D11
S11-04.H09
S11-04.C11
S11-01.F08
S11-01.E02
S32-03.G11
HulgG1 ET901
8C8
Mopc173
10 μg / ml

FIG. 25

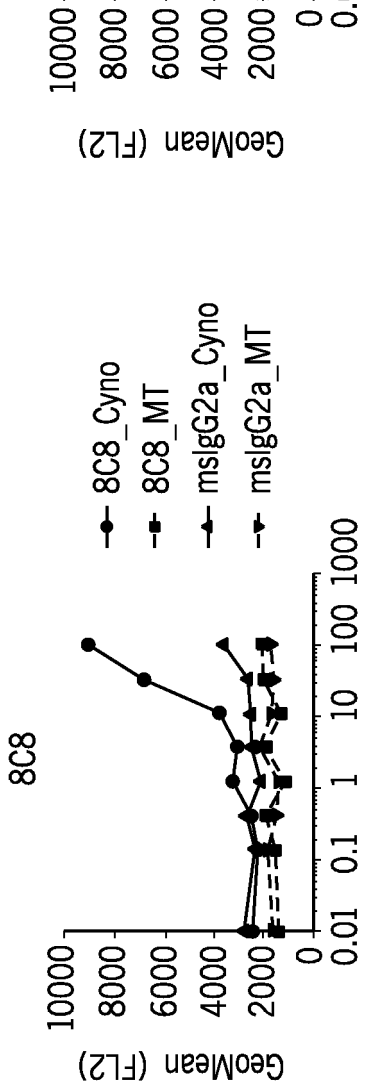


FIG. 26A

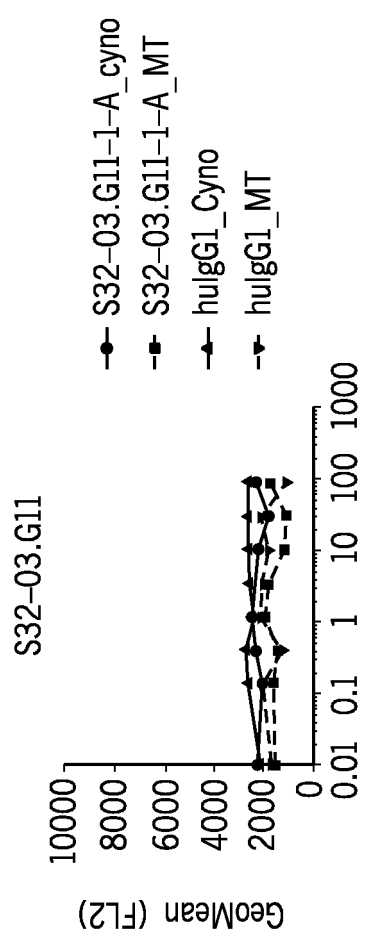


FIG. 26B

FIG. 26C

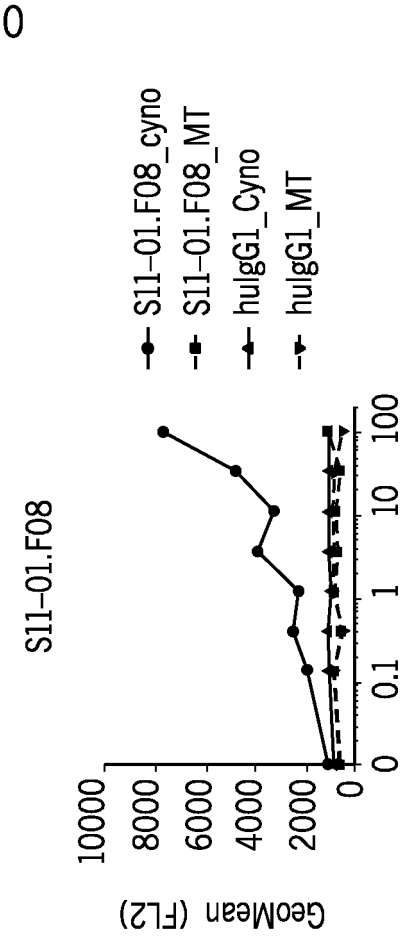


FIG. 26D

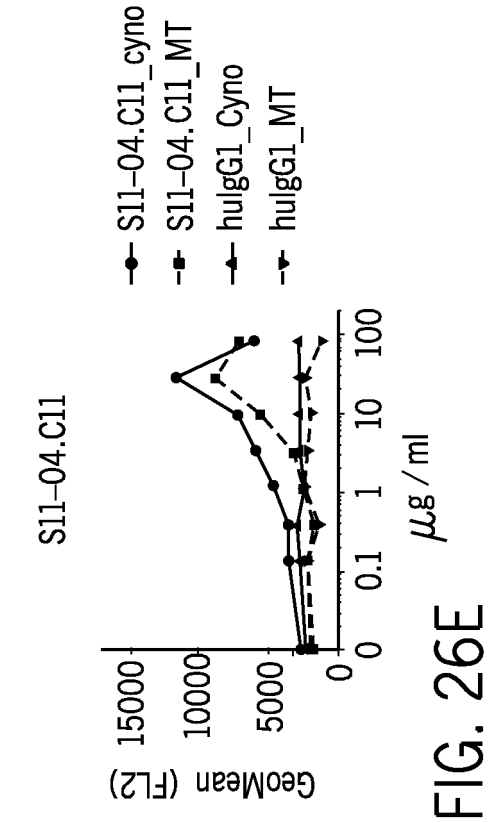


FIG. 26E

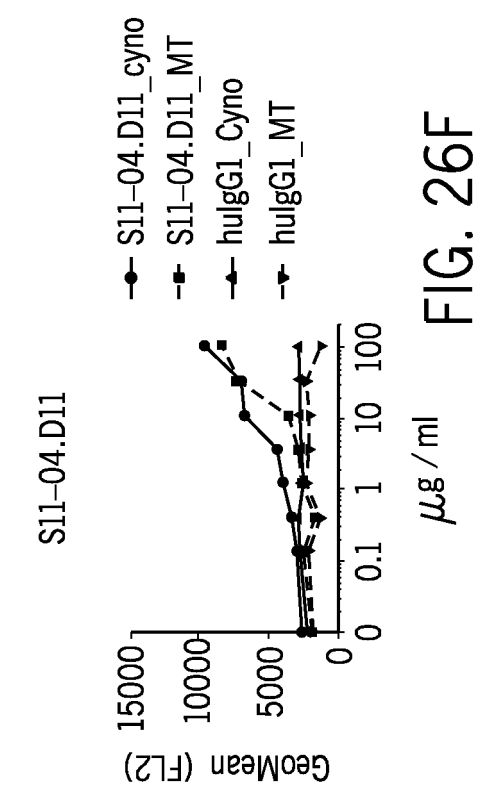


FIG. 26F

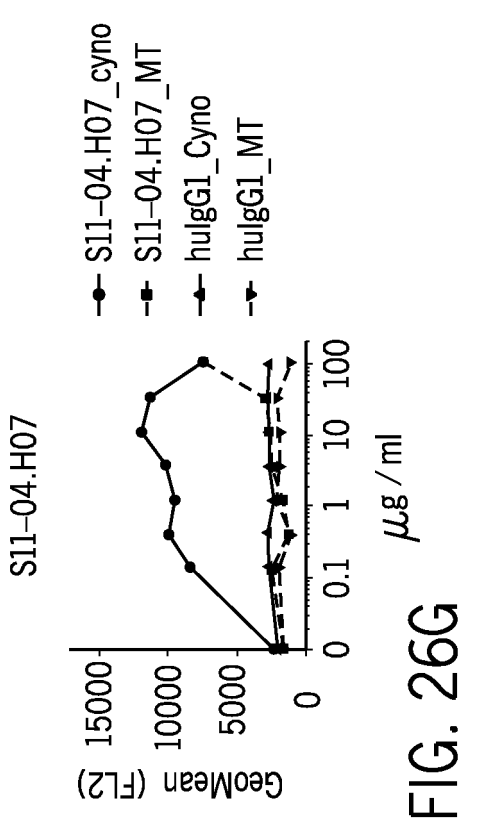


FIG. 26G

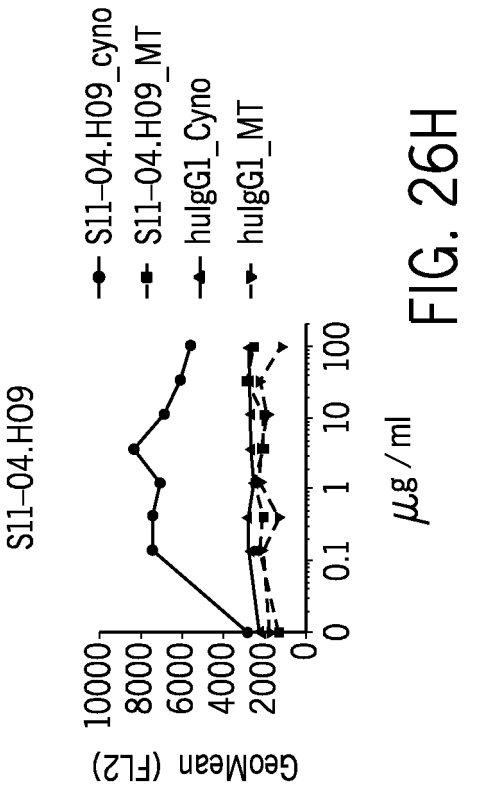


FIG. 26H

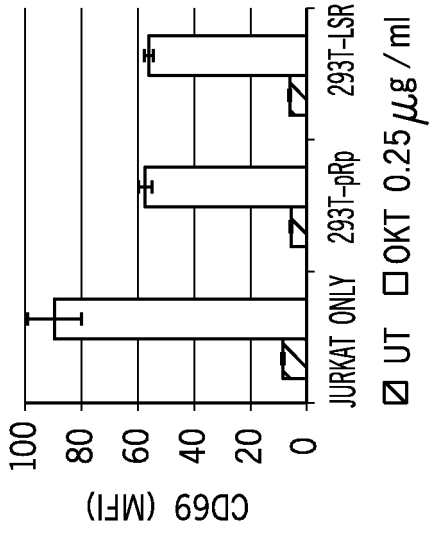


FIG. 27A

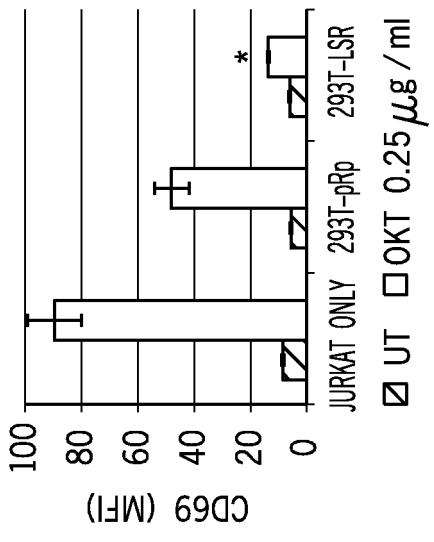


FIG. 27B

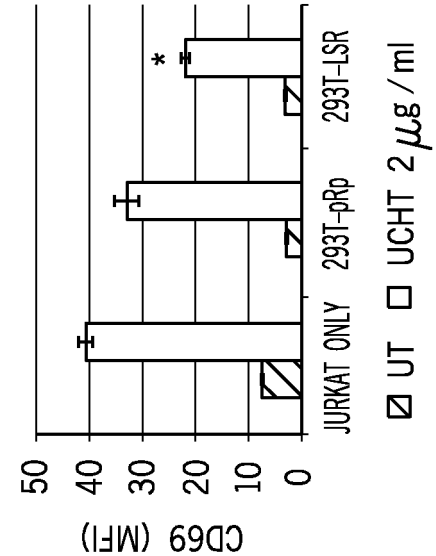


FIG. 27C

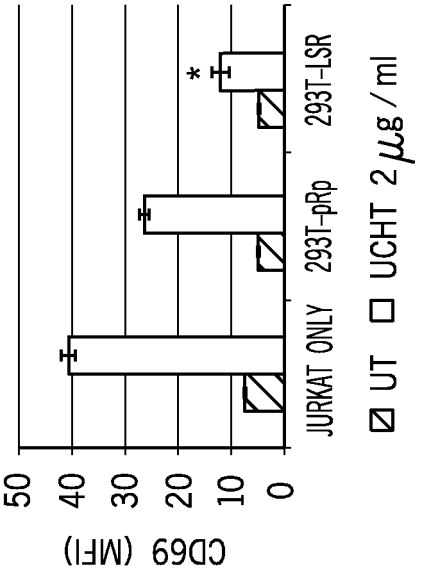


FIG. 27D

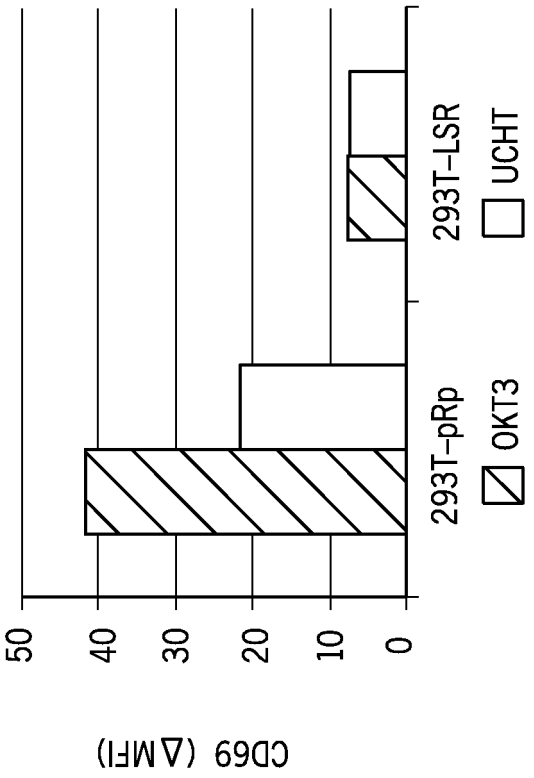


FIG. 27E

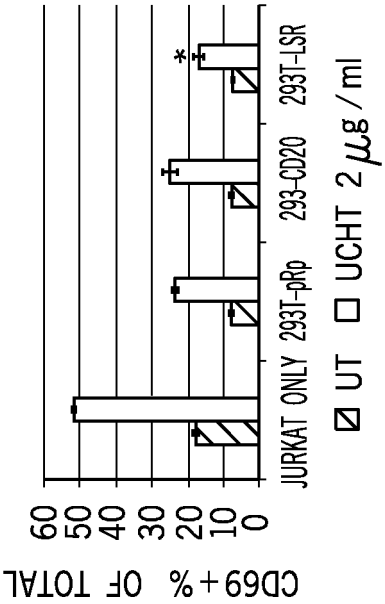


FIG. 28B

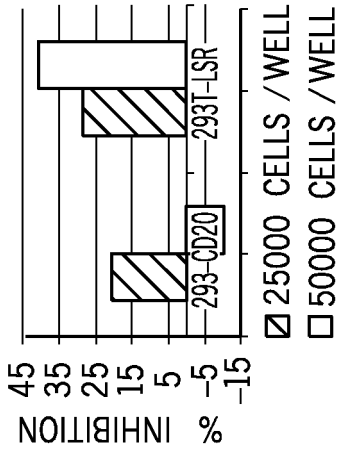


FIG. 28D

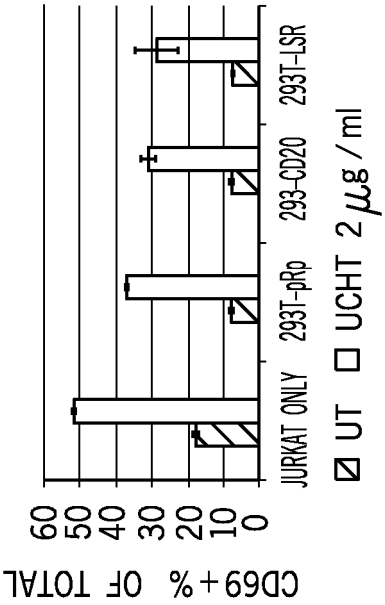


FIG. 28A

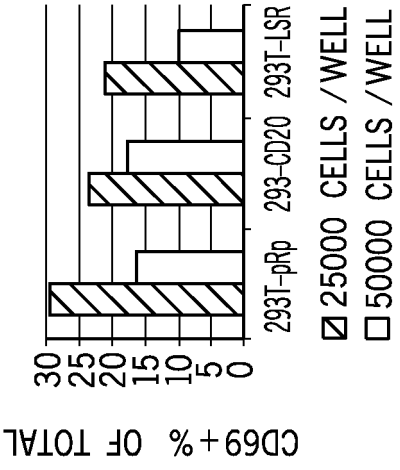


FIG. 28C