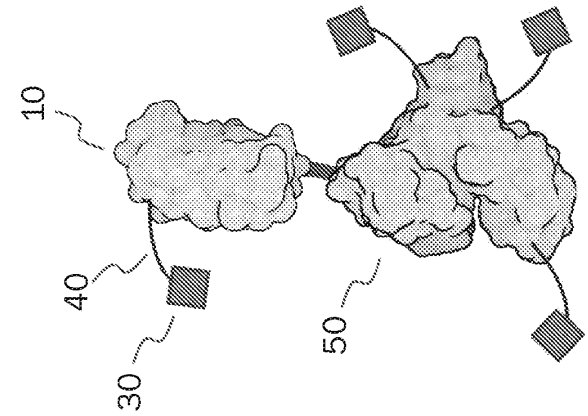


Fig 1B

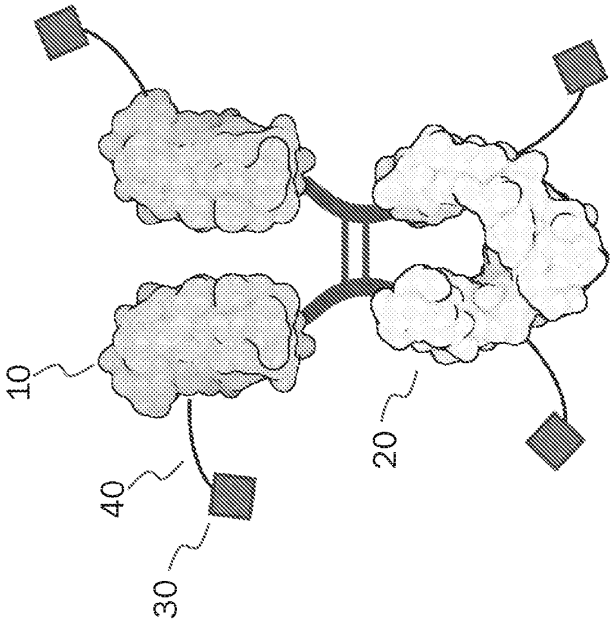


Fig 1A

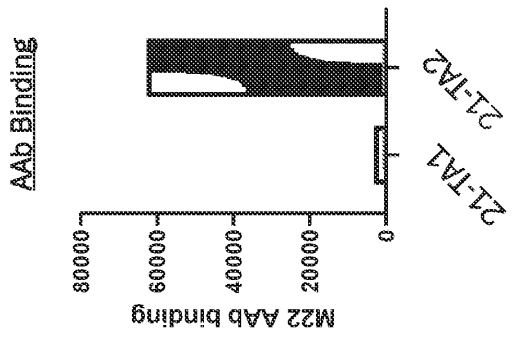


Fig 2C

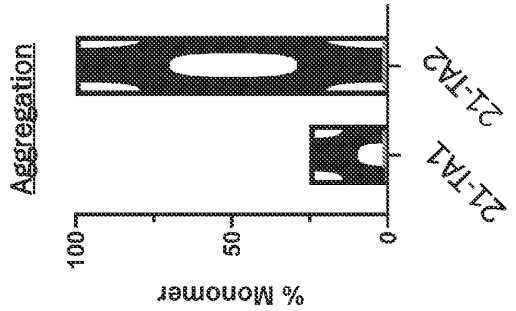


Fig 2B

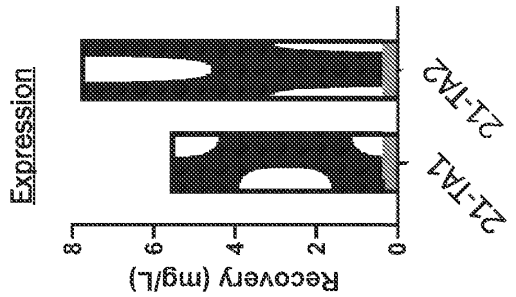


Fig 2A

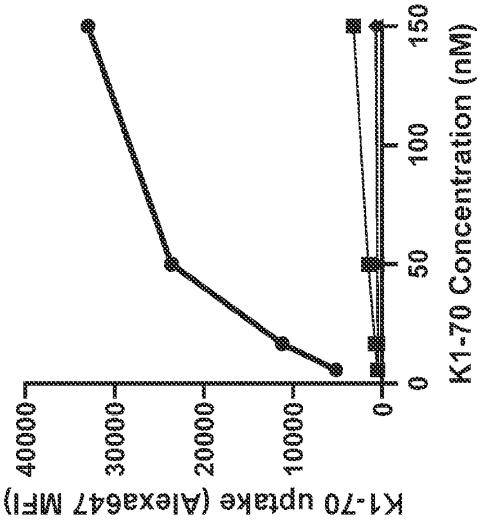

K1-70 uptake (Alexa647 MFI)
40000
30000
20000
10000
0
0
50
100
150
K1-70 Concentration (nM)

Fig 3B

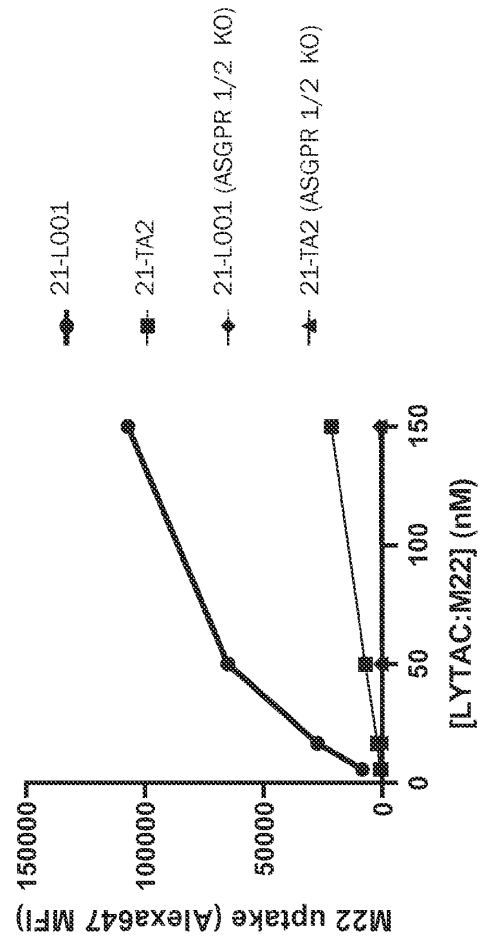

21-L001
21-TA2
21-L001 (ASGPR 1/2 KO)
21-TA2 (ASGPR 1/2 KO)
M22 uptake (Alexa647 MFI)
150000
100000
50000
0
0
50
100
150
[LYTAC:M22] (nM)

Fig 3A

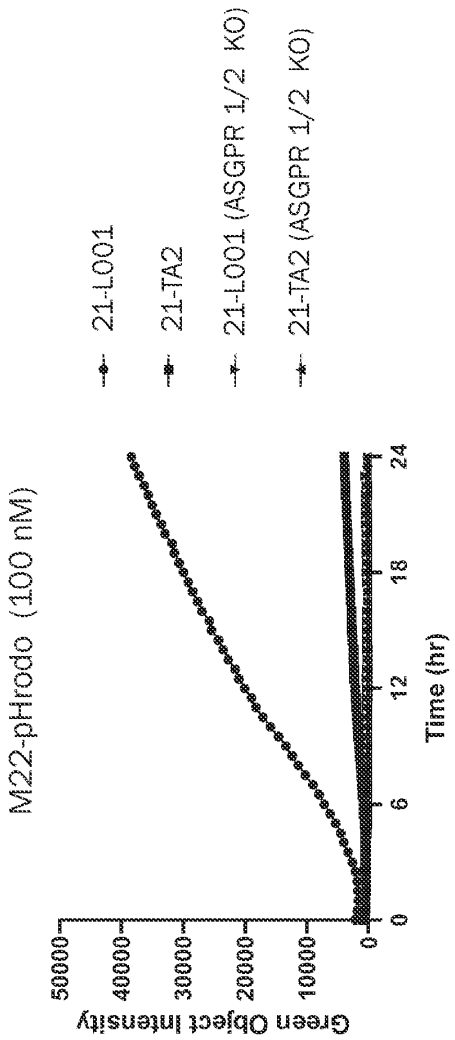

M22-pHrodo (100 nM)
21-L001
21-TA2
21-L001 (ASGPR 1/2 KO)
21-TA2 (ASGPR 1/2 KO)
Green Object Intensity
50000
40000
30000
20000
10000
0
0
6
12
18
24
Time (hr)

Fig 4

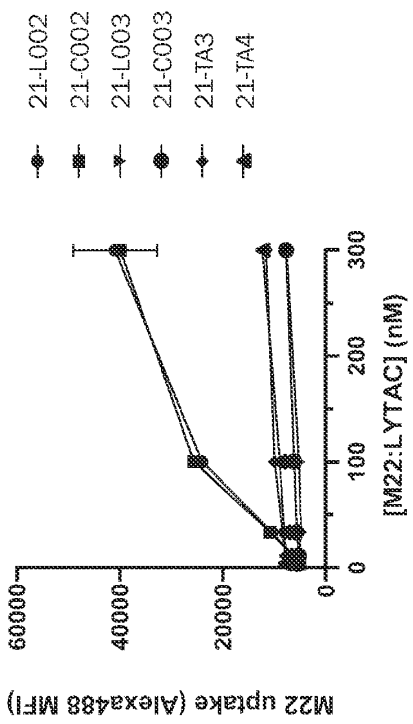

21-L002
21-C002
21-L003
21-C003
21-TA3
21-TA4
M22 uptake (Alexa488 MFI)
60000
40000
20000
0
0
100
200
300
[M22:LYTAC] (nM)

Fig 5

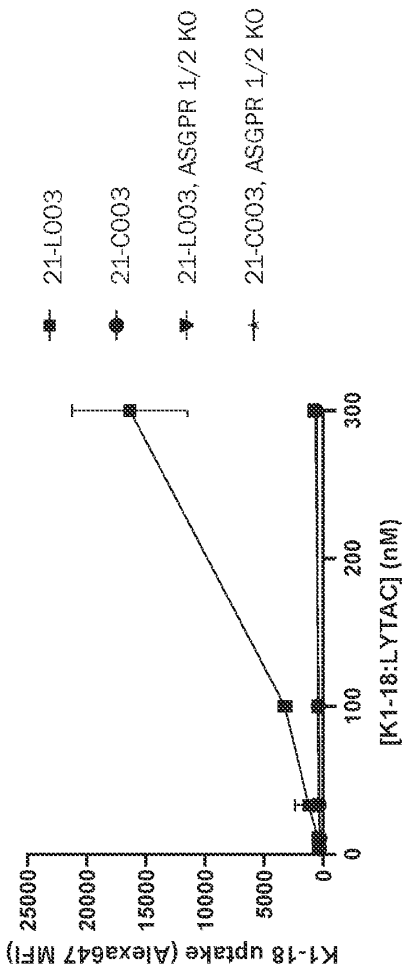

21-L003
21-C003
21-L003, ASGPR 1/2 KO
21-C003, ASGPR 1/2 KO
K1-18 uptake (Alexa647 MFI)
25000
20000
15000
10000
5000
0
0
100
200
300
[K1-18:LYTAC] (nM)

Fig 6

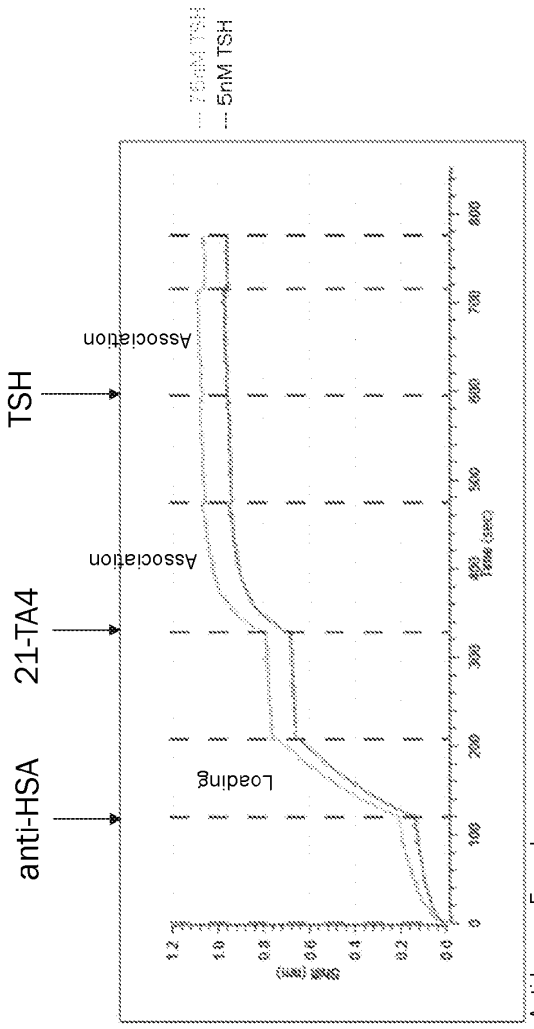

anti-HSA
21-TA4
TSH
Loading
Association
Association
--- 5nM TSH
Anti-human Fc probe

Fig 7

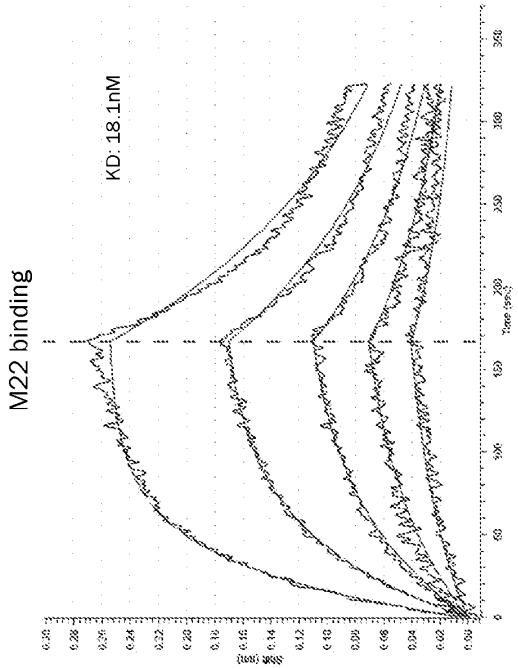


Fig 8B

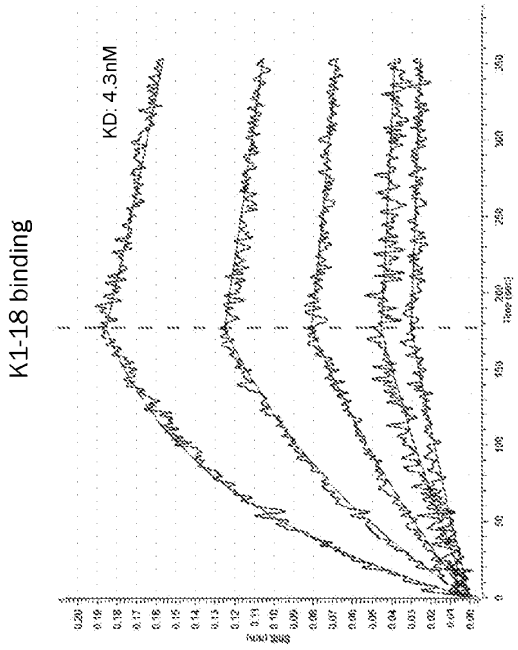


Fig 8A

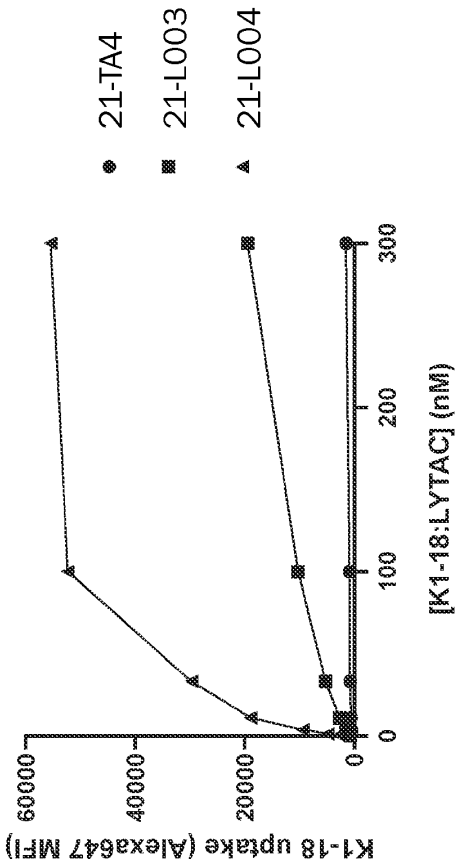

21-TA4
21-L003
21-L004
K1-18 uptake (Alexa647 MFI)
60000
40000
20000
0
0
100
200
300
[K1-18:LYTAC] (nM)

Fig 9

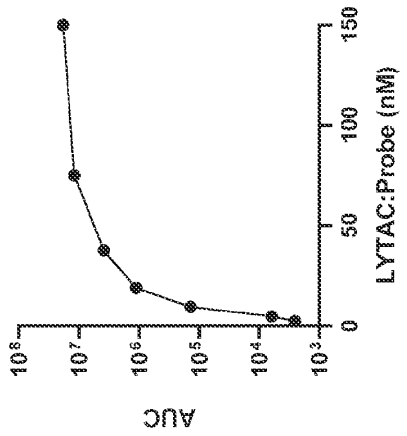


Fig 10B

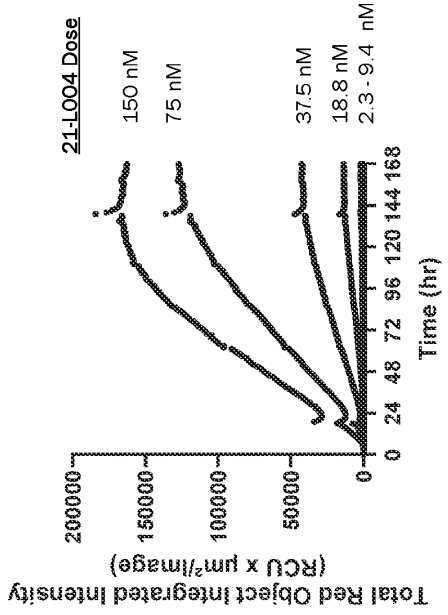


Fig 10A

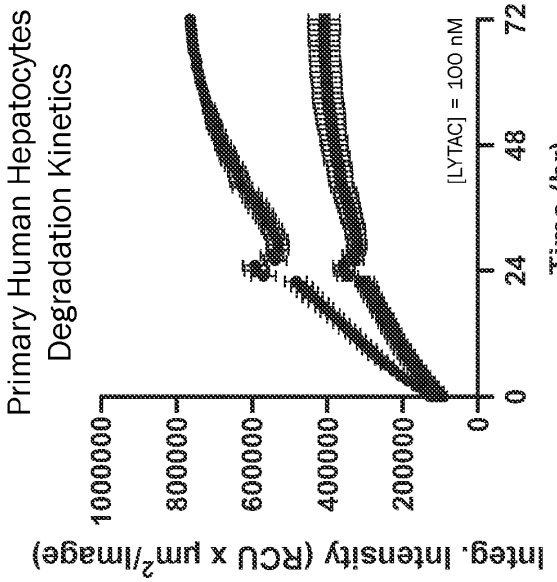

Primary Human Hepatocytes
Degradation Kinetics
Integ. Intensity (RCU x μm²/Image)
1000000
800000
600000
400000
200000
0
0
24
48
72
Time (hr)
[LYTAC] = 100 nM
21-L004
21-C004
pAAb-Probe only

Fig 11

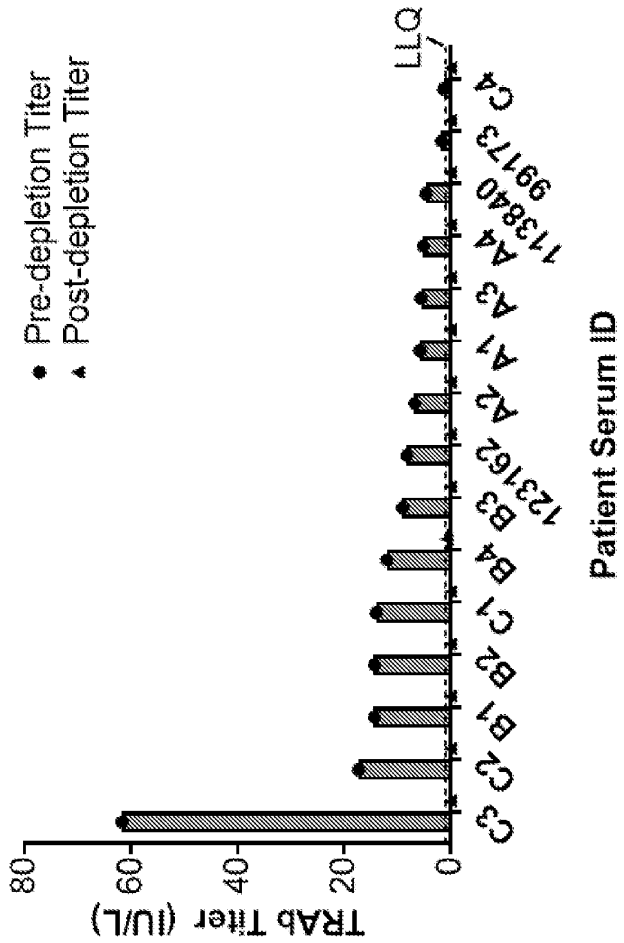

Pre-depletion Titer
Post-depletion Titer
TRAb Titer (IU/L)
0
20
40
60
80
LLQ
C3
C2
B1
B2
C1
B4
B3
123162
A2
A1
A3
A4
113840
99173
C4
Patient Serum ID

Fig 12

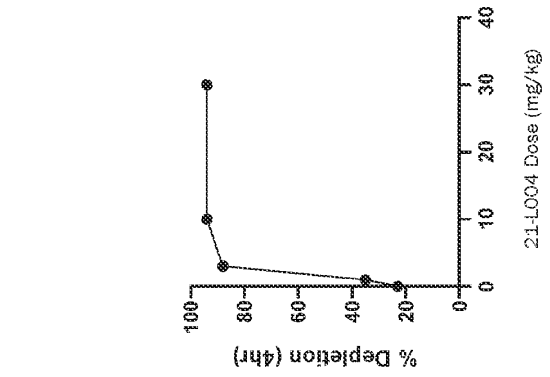


Fig 13B

K1-18

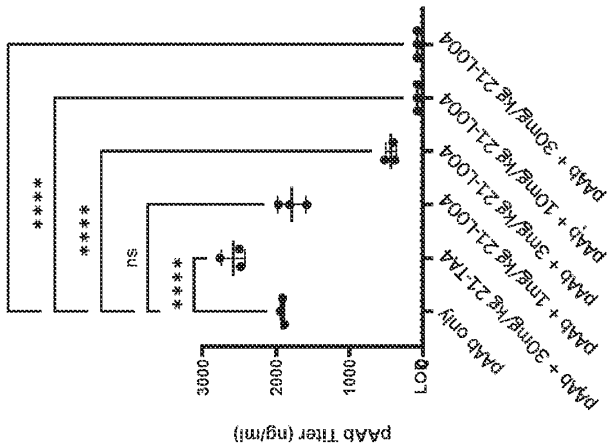


Fig 13A

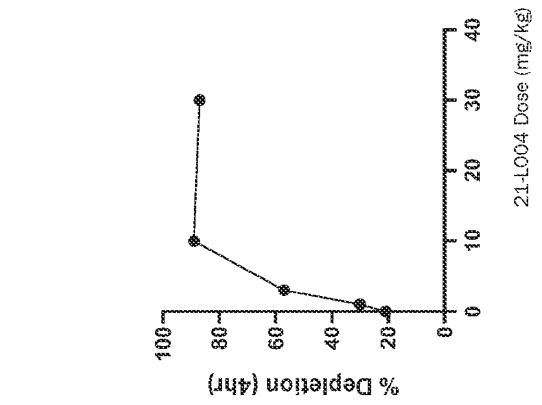


Fig 13D

M22

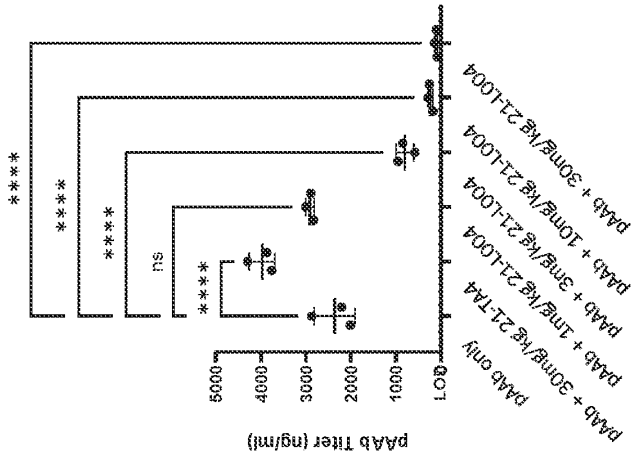


Fig 13C

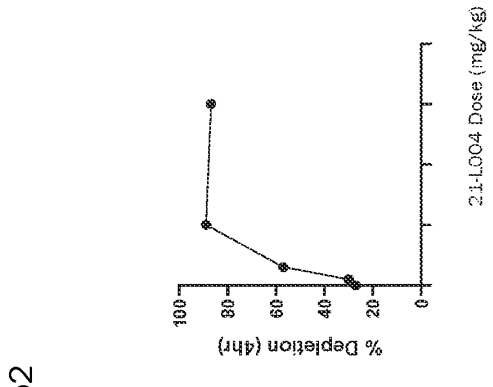


Fig 13F

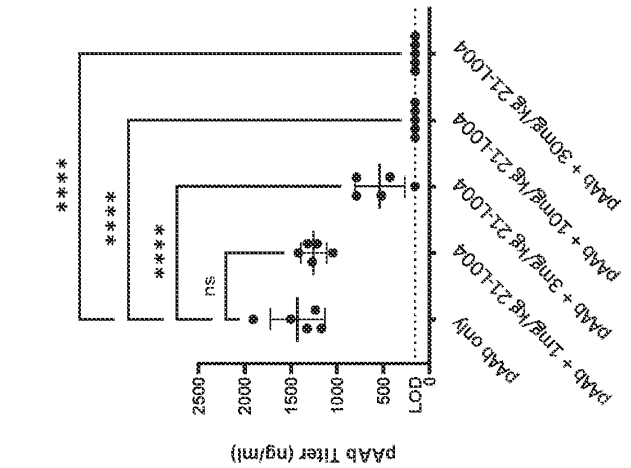


Fig 13E

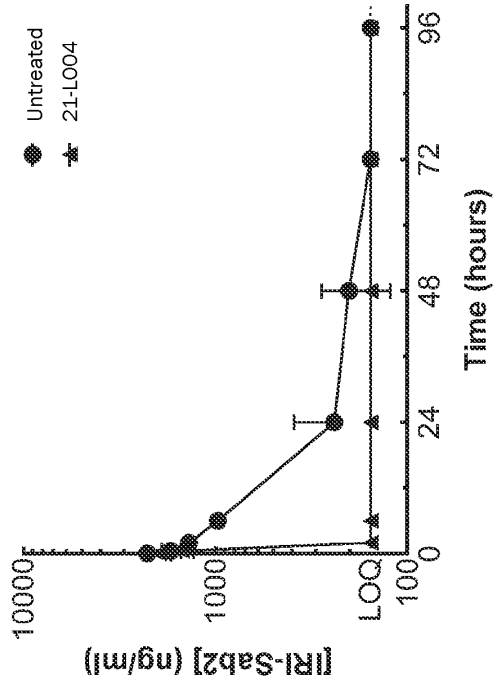

Untreated
21-LO04
[IRI-Sab2] (ng/ml)
10000
1000
LOQ
100
0
24
48
72
96
Time (hours)

Fig 14

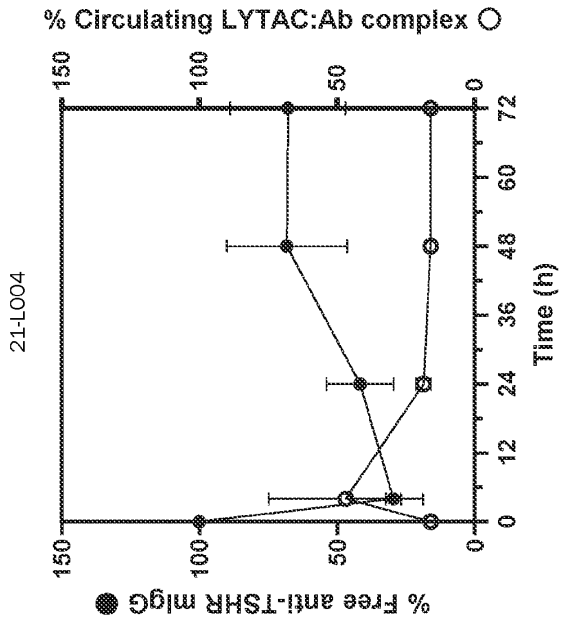

% Circulating LYTAC:Ab complex ○
% Free anti-TSHR mIgG ●
21-L004
Time (h)
0
12
24
36
48
60
72
150
100
50
0

Fig 15

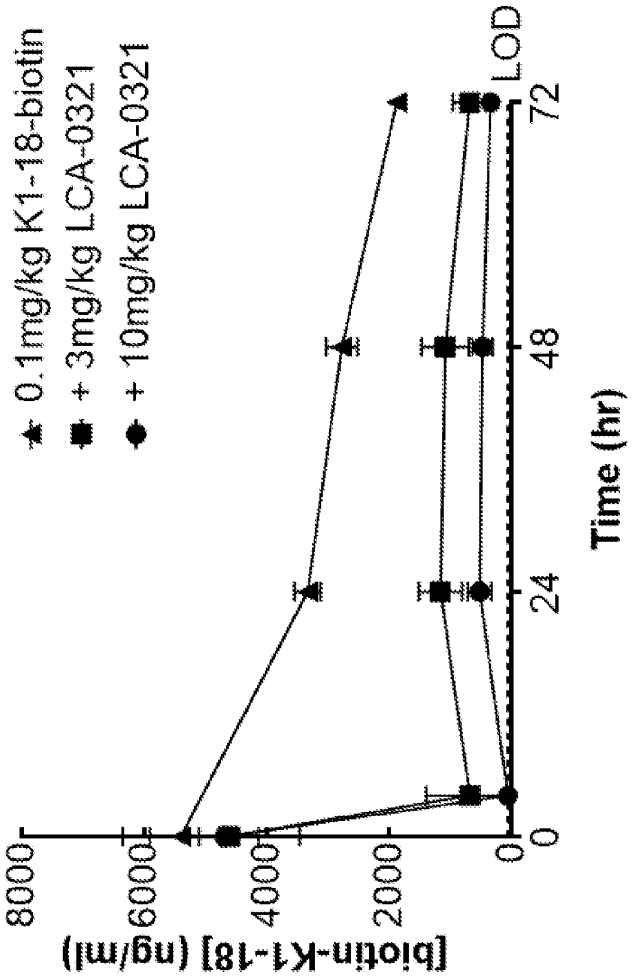

0.1mg/kg K1-18-biotin
+ 3mg/kg LCA-0321
+ 10mg/kg LCA-0321
[biotin-K1-18] (ng/ml)
8000
6000
4000
2000
0
LOD
0
24
48
72
Time (hr)

Fig 16