		1 uM mAb + 50 nM hActivin A												
α-Activin A	mAb Capture Level (nm)		1	2	3	4	5	6	7	8	9	10	11	12 (-)	13 (-)
H4H10446P2	1.66 ± 0.26	1	0.32	0.36	0.39	0.33	1.39	1.61	1.68	1.61	1.67	0.83	1.21	0.47	0.26
H4H10468P2	1.65 ± 0.27	2	0.33	0.39	0.40	0.41	1.41	1.68	1.73	1.66	1.70	1.08	0.79	0.41	0.28
H4H10442P2	1.73 ± 0.30	3	0.35	0.36	0.39	0.27	1.33	1.55	1.59	1.44	1.50	0.99	0.99	0.46	0.26
H4H10423P	1.62 ± 0.25	4	0.51	0.58	0.59	0.22	0.28	1.48	1.32	1.49	1.31	0.60	0.79	0.39	0.26
H4H10430P	1.67 ± 0.23	5	1.55	1.84	1.76	0.33	0.27	0.62	0.26	0.31	0.31	0.20	-0.03	0.49	0.27
H4H10429P	1.71 ± 0.29	6	1.24	1.37	1.40	1.39	0.65	0.32	0.26	0.34	0.29	0.16	-0.01	0.39	0.24
H4H10432P2	1.54 ± 0.45	7	1.36	1.58	1.63	1.32	0.28	0.32	0.24	0.29	0.27	0.15	-0.05	0.30	0.11
H4H10436P2	1.66 ± 0.45	8	1.22	1.32	1.39	1.41	0.28	0.36	0.23	0.30	0.27	0.16	-0.04	0.28	0.14
H4H10440P2	1.44 ± 0.35	9	1.17	1.37	1.40	1.22	0.29	0.41	0.27	0.32	0.28	0.13	-0.05	0.28	0.11
Control 1	1.33 ± 0.14	10	1.37	1.37	1.30	1.14	0.24	0.24	0.13	0.20	0.25	0.15	-0.05	0.27	0.12
Control 3	0.78 ± 0.10	11	0.69	0.35	0.15	0.58	0.06	0.01	0.01	0.00	0.08	-0.02	0.24	0.15	0.33
Isotype control	1.48 ± 0.27	12 (-)	0.22	0.25	0.23	0.18	0.23	0.22	0.14	0.20	0.23	0.26	-0.02	0.15	-0.02
Isotype control	1.18 ± 0.09	13 (-)	-0.12	0.02	0.01	-0.02	0.06	0.00	0.00	0.01	0.06	-0.03	0.20	-0.02	0.24

Figure 1

SUBSTITUTE SHEET (RULE 26)


A
Isotype Control
H4H1657N2
Peak Tetanic Force (mN)
1500
1250
1000
750
500
250
0
*
n.s
10mg/kg
30mg/kg
Stats by One Way Anova + HSD Tukey test
*p<0.05 compared to Isotype 10mg/kg
n.s. = not statistically different from Isotype 30mg/kg
B
Isotype Control
H4H1657N2
Tetanic Force (mN)
1100
1050
1000
950
900
850
800
750
700
650
40
50
60
70
80
90
100
Stimulation Frequency (Hz)
Stats by Two Way ANOVA + Sidak post hoc Test
Overall Drug Effect p<0.0001

Fig. 2

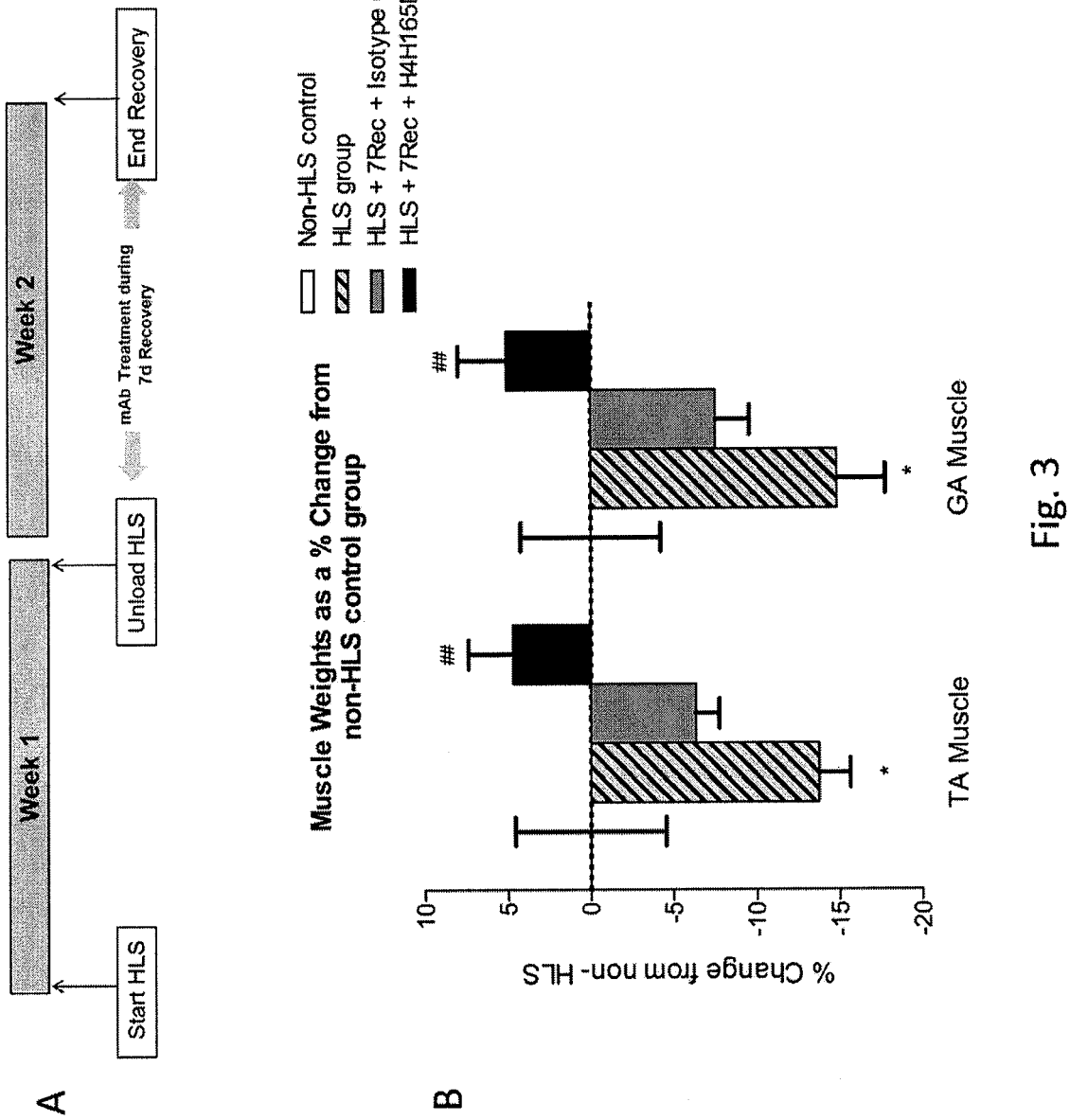

A
Start HLS
Week 1
Unload HLS
mAb Treatment during 7d Recovery
Week 2
End Recovery
B
Muscle Weights as a % Change from non-HLS control group
Non-HLS control
HLS group
HLS + 7Rec + Isotype Control
HLS + 7Rec + H4H165N2
% Change from non- HLS
10
5
0
-5
-10
-15
-20
##
*
TA Muscle
GA Muscle

Fig. 3

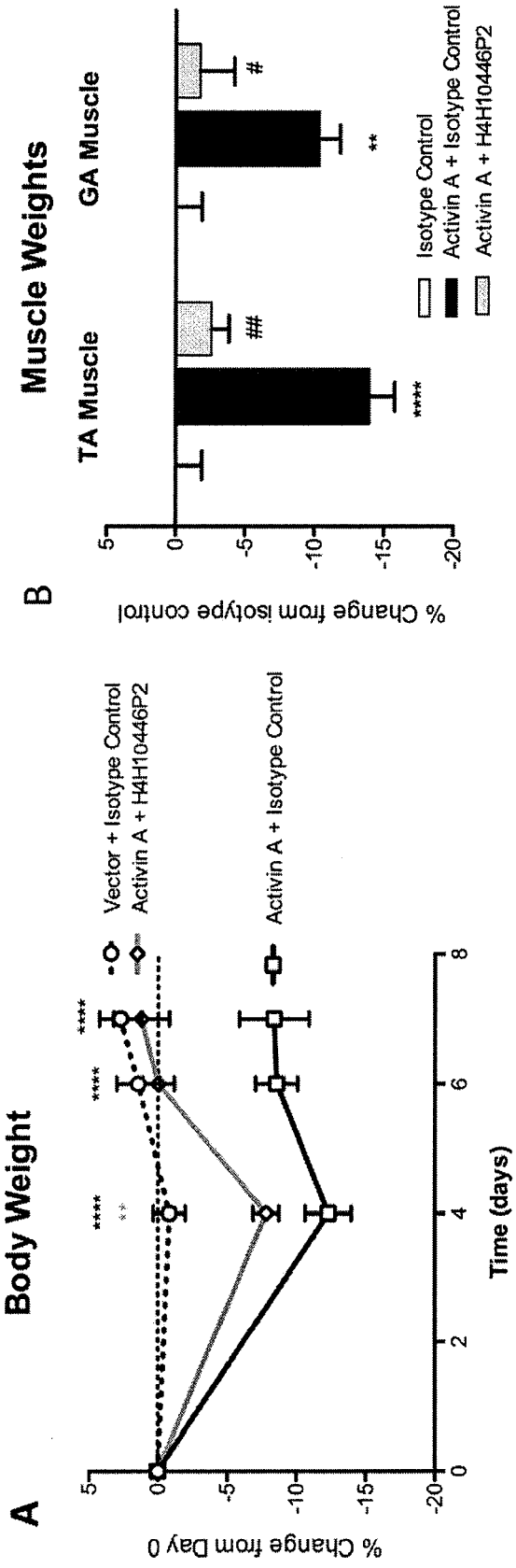

A
Body Weight
% Change from Day 0
Time (days)
Vector + Isotype Control
Activin A + H4H10446P2
Activin A + Isotype Control
B
Muscle Weights
TA Muscle
GA Muscle
% Change from isotype control
Isotype Control
Activin A + Isotype Control
Activin A + H4H10446P2

Figure 4