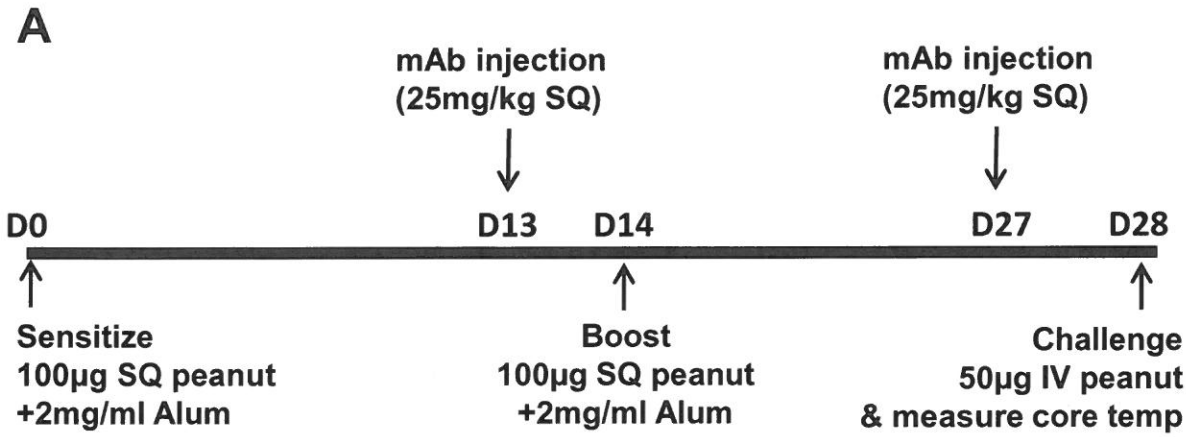
Peanut Allergy Mouse Model

(two dose administration)



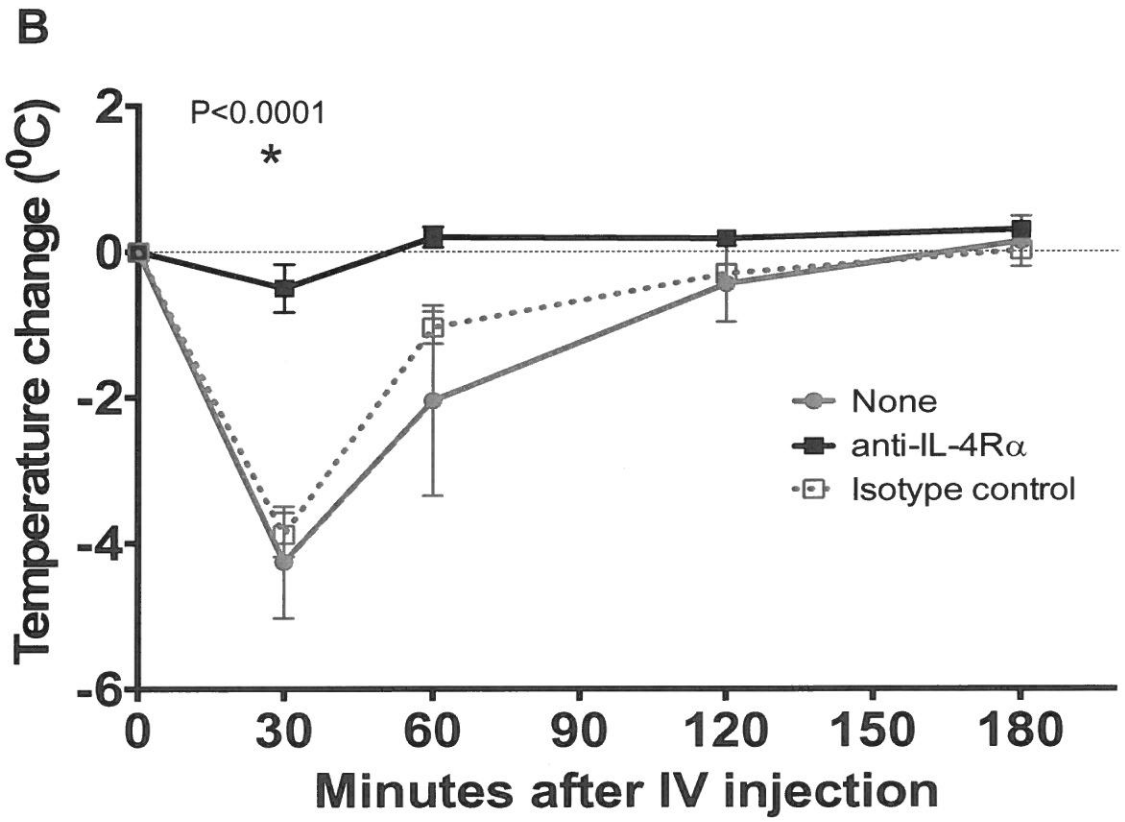
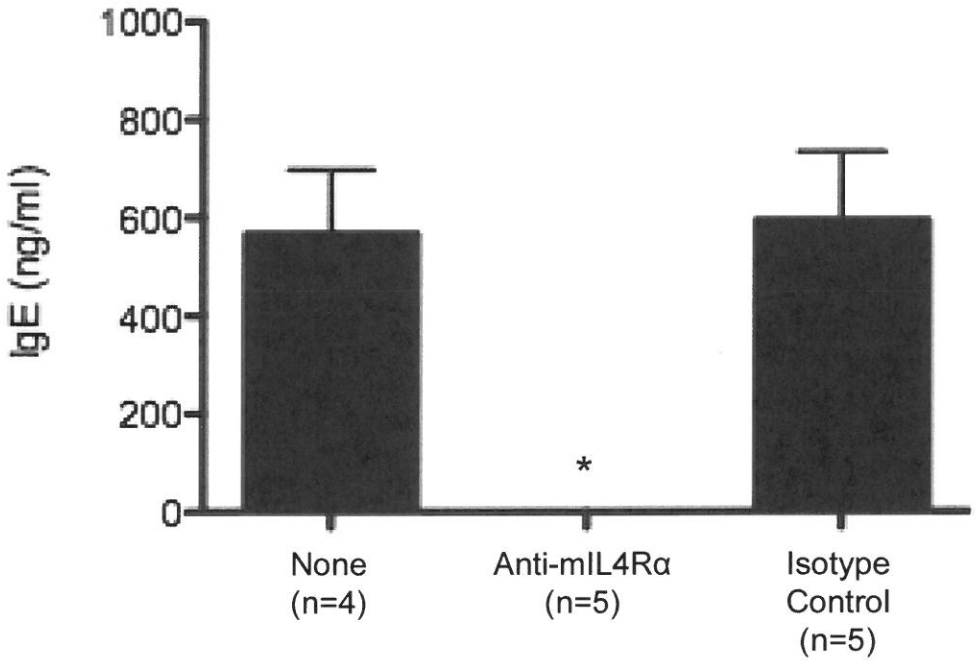


Figure 1

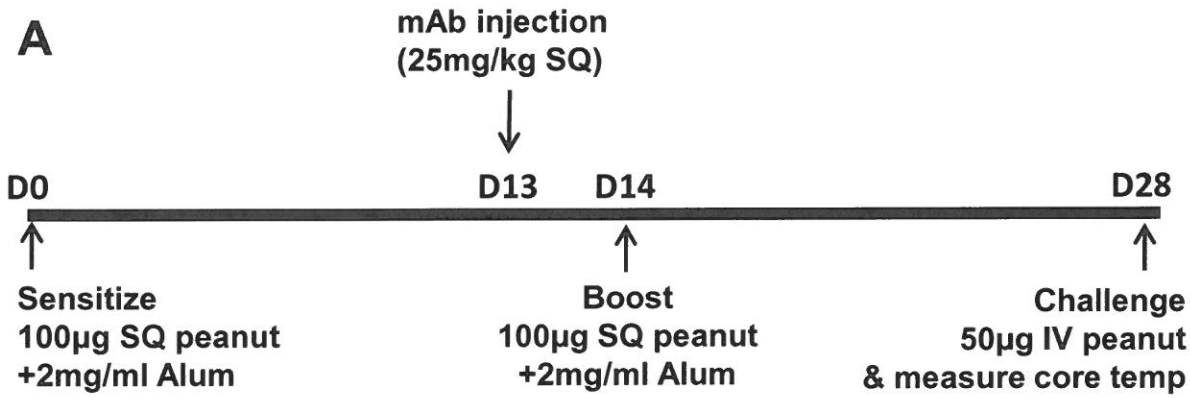


*p<0.05 compared to isotype control

Figure 2

Peanut Allergy Mouse Model

(single administration on Day13)



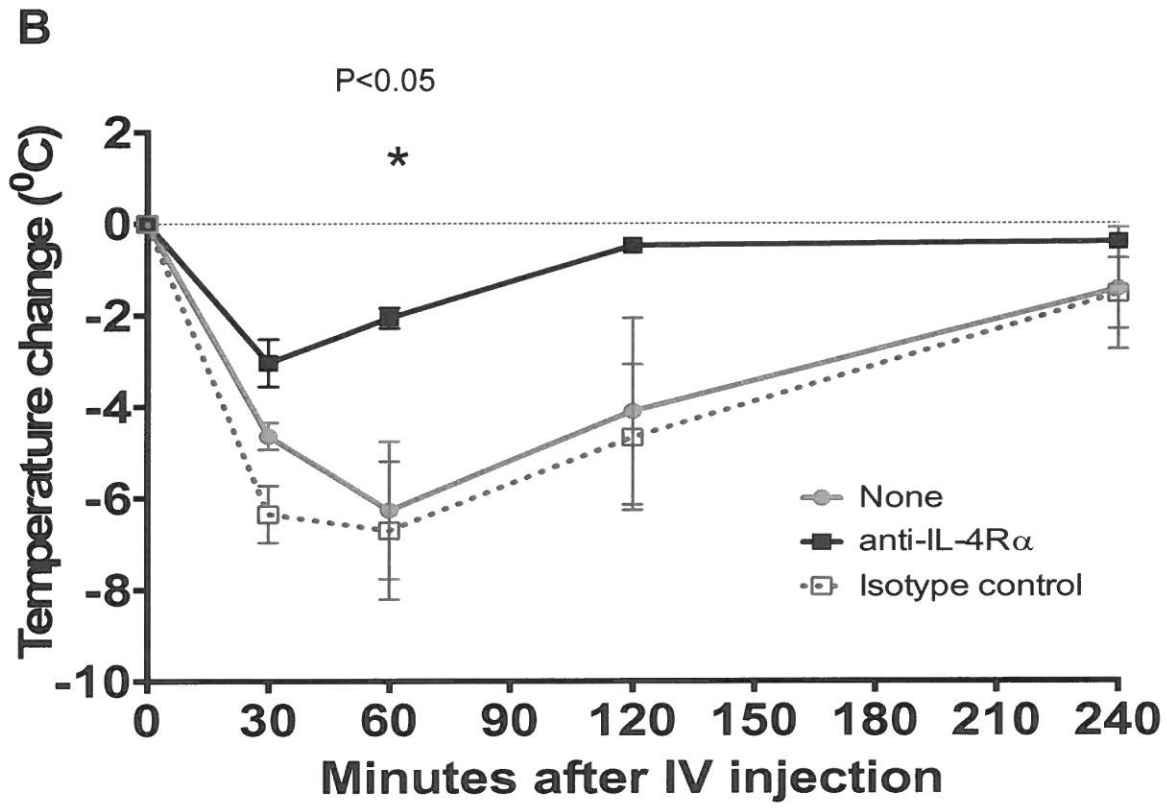


Figure 3

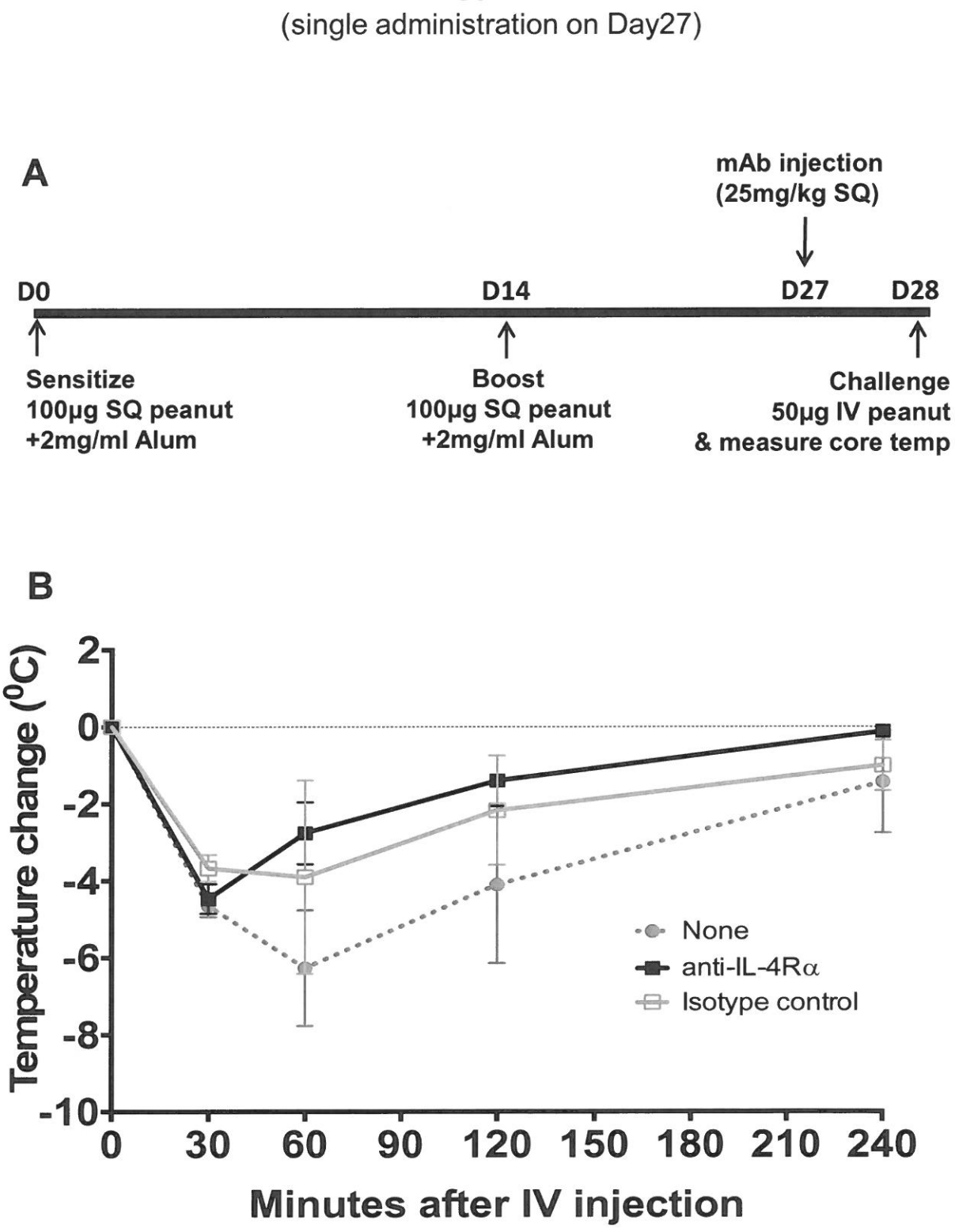

Peanut Allergy Mouse Model
(single administration on Day27)
A
mAb injection
(25mg/kg SQ)
D0
D14
D27
D28
Sensitize
100µg SQ peanut
+2mg/ml Alum
Boost
100µg SQ peanut
+2mg/ml Alum
Challenge
50µg IV peanut
& measure core temp
B
Temperature change (°C)
2
0
-2
-4
-6
-8
-10
0
30
60
90
120
150
180
210
240
Minutes after IV injection
None
anti-IL-4Rα
Isotype control

Figure 4

Total IgE Levels

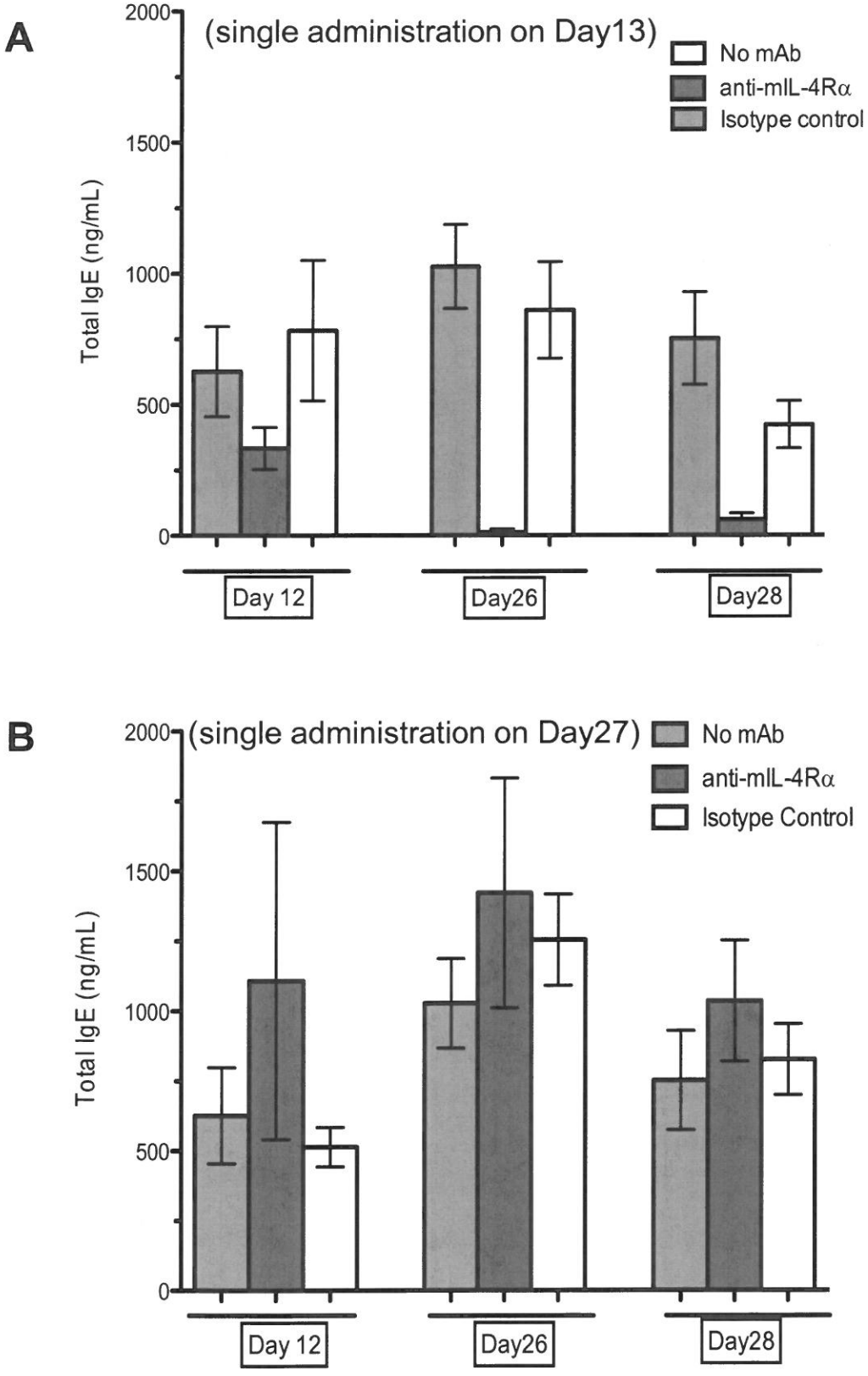


Figure 5

Peanut Specific Immunotherapy Mouse Model

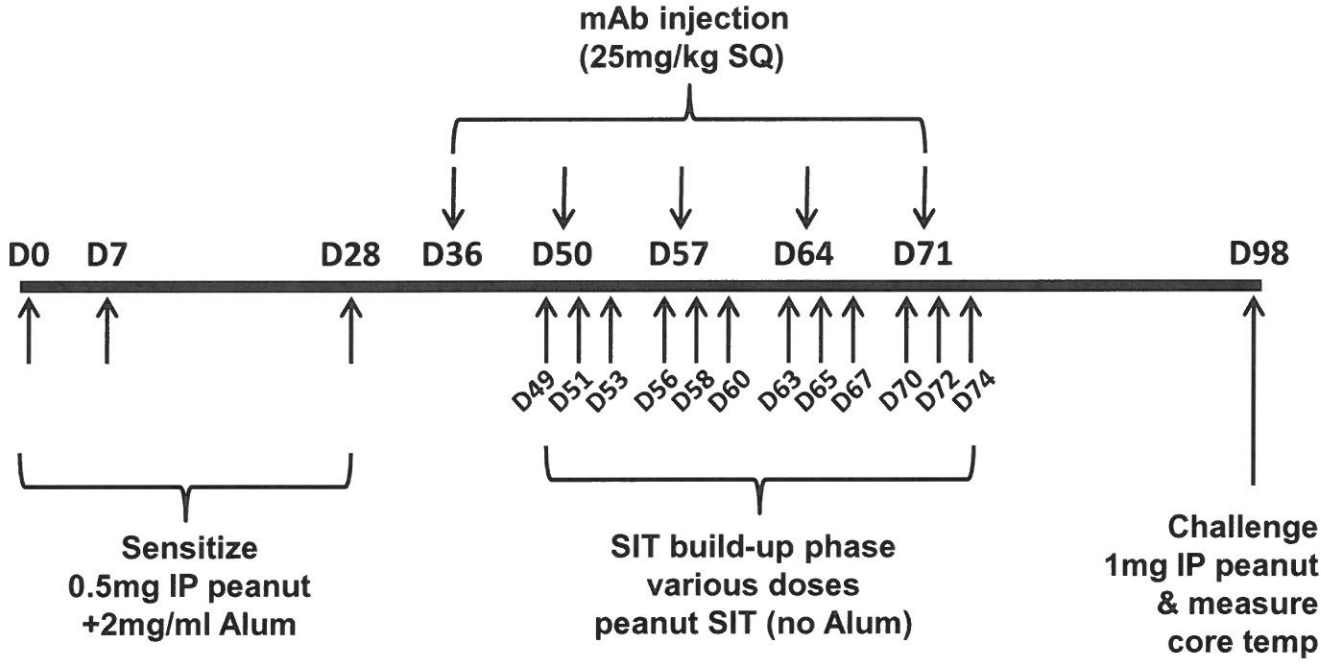


Figure 6

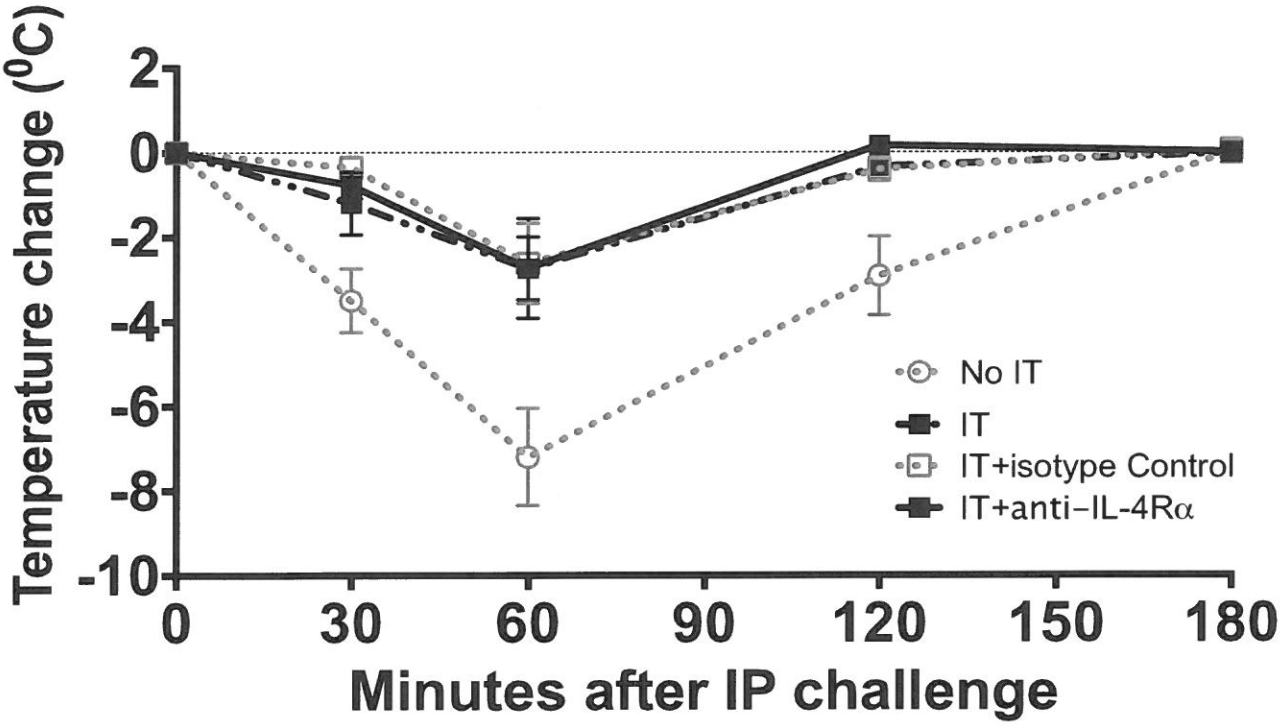

Temperature change (^{0}C)
2
0
-2
-4
-6
-8
-10
0
30
60
90
120
150
180
Minutes after IP challenge
No IT
IT
IT+isotype Control
IT+anti-IL-4Rα

Figure 7

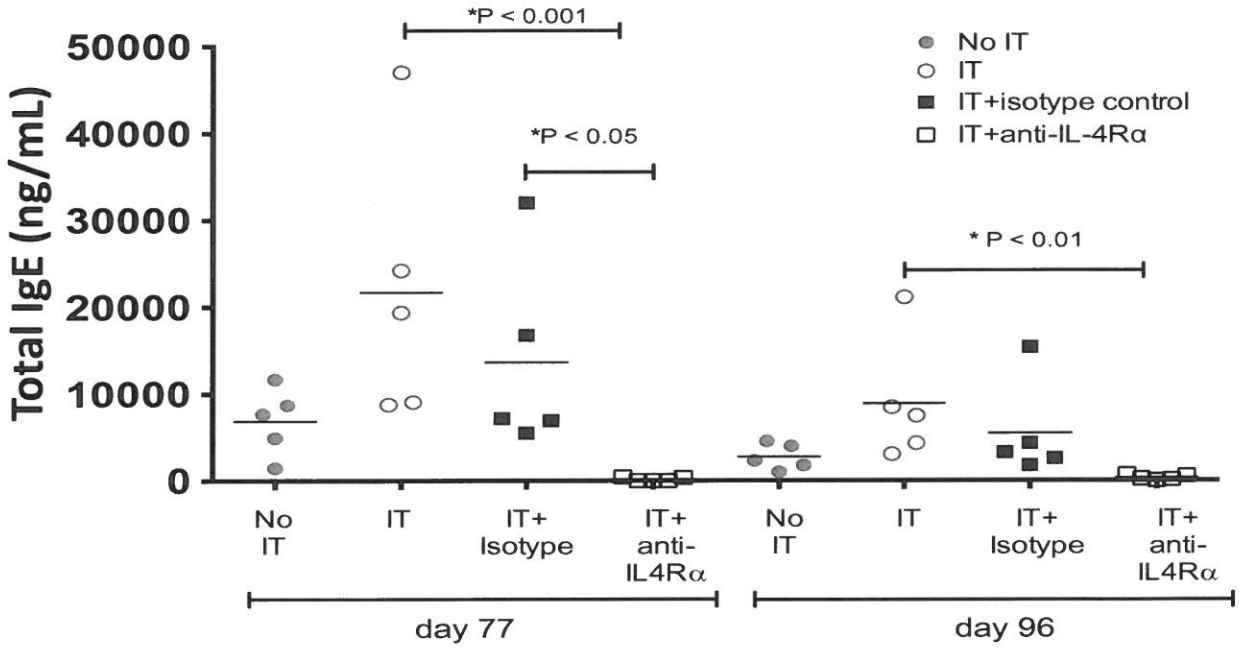

*P < 0.001
*P < 0.05
* P < 0.01
No IT
IT
IT+isotype control
IT+anti-IL-4Rα
Total IgE (ng/mL)
50000
40000
30000
20000
10000
0
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
day 77
day 96

Figure 8

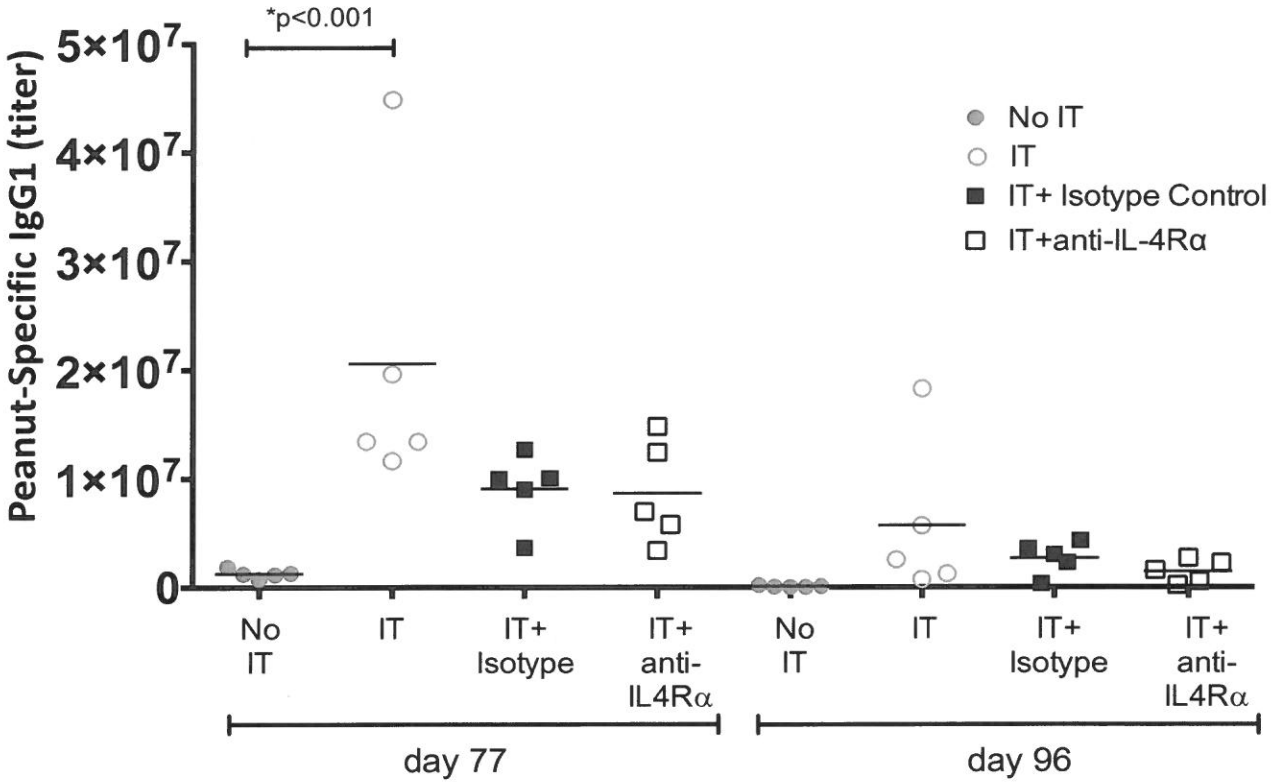

*p<0.001
Peanut-Specific IgG1 (titer)
5×10^7
4×10^7
3×10^7
2×10^7
1×10^7
0
No IT
IT
IT+ Isotype Control
IT+anti-IL-4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
day 77
day 96

Figure 9

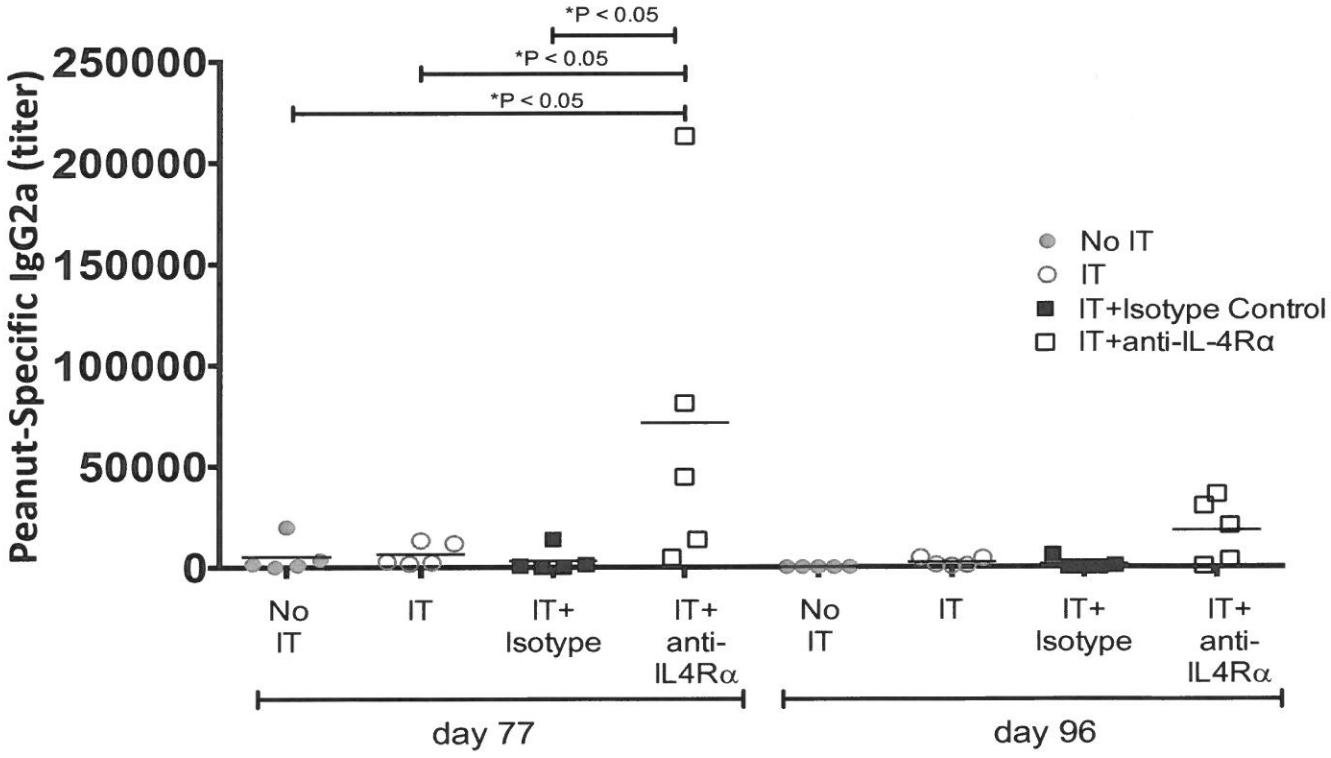

*P < 0.05
*P < 0.05
*P < 0.05
Peanut-Specific IgG2a (titer)
250000
200000
150000
100000
50000
0
No IT
IT
IT+Isotype Control
IT+anti-IL-4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
day 77
day 96

Figure 10

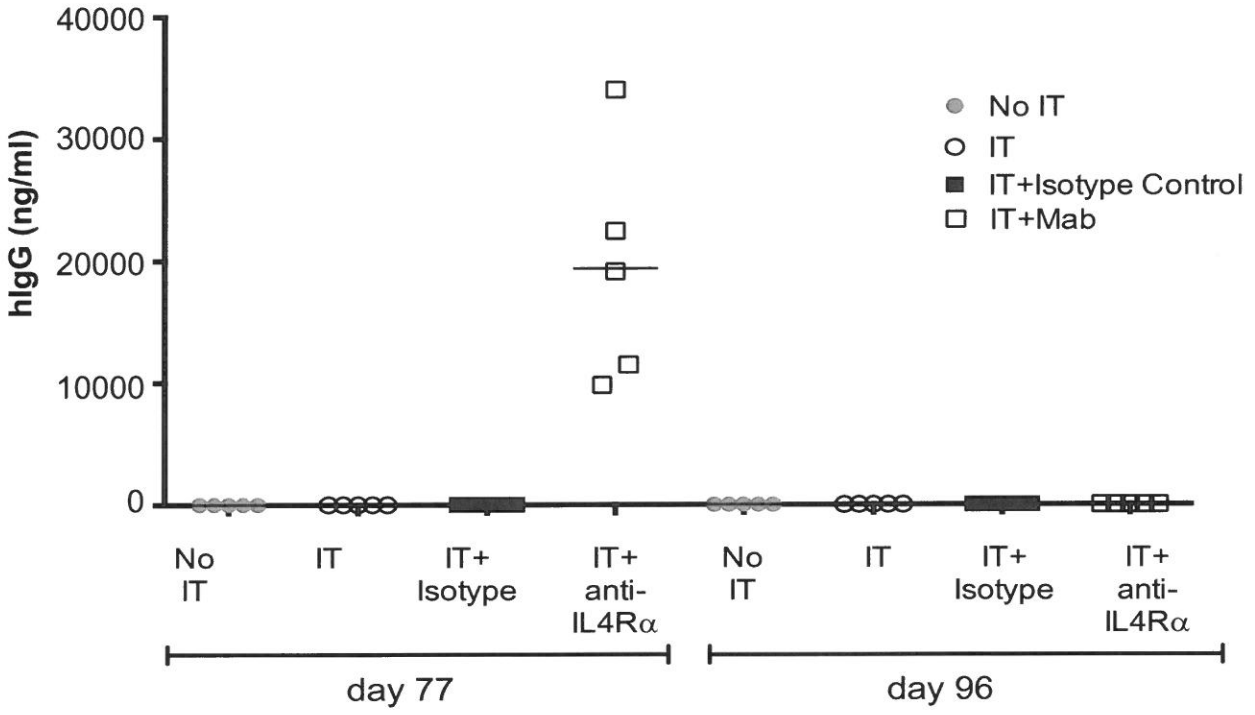

40000
30000
20000
10000
0
hIgG (ng/ml)
No IT
IT
IT+Isotype Control
IT+Mab
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
No IT
IT
IT+ Isotype
IT+ anti-IL4Rα
day 77
day 96

Figure 11

Peanut Specific Immunotherapy Mouse Model

(less frequent dosing during build-up phase)

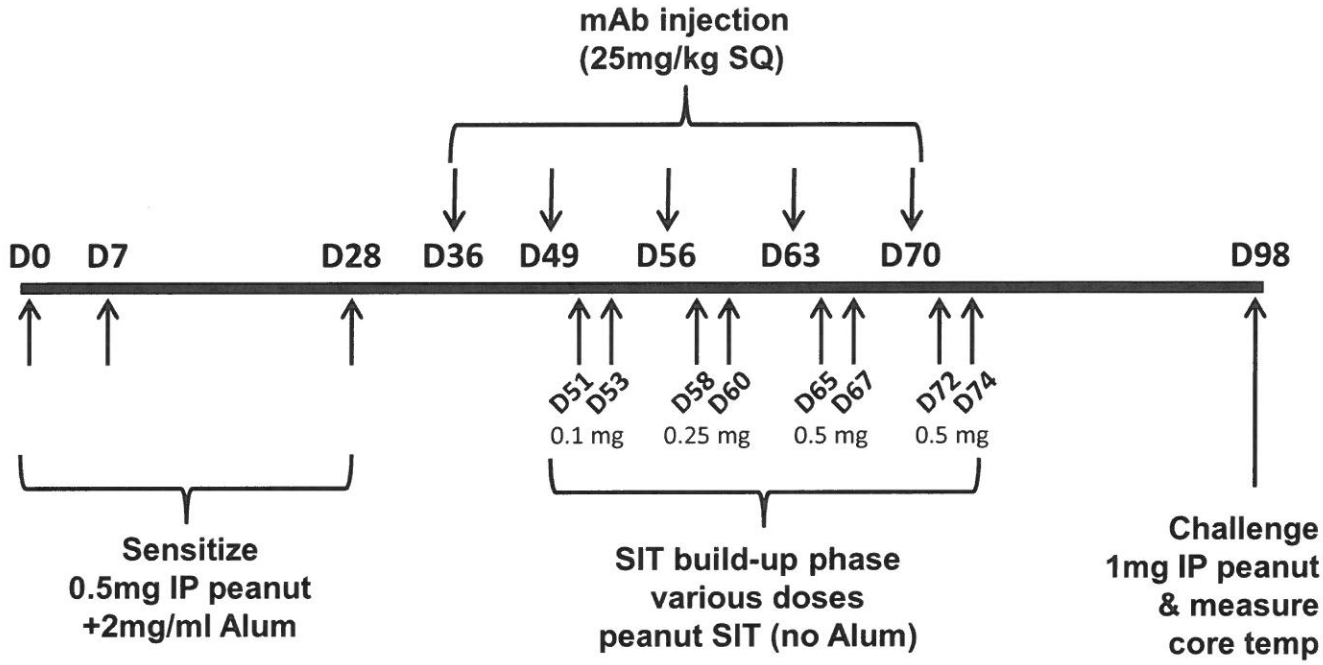


Figure 12

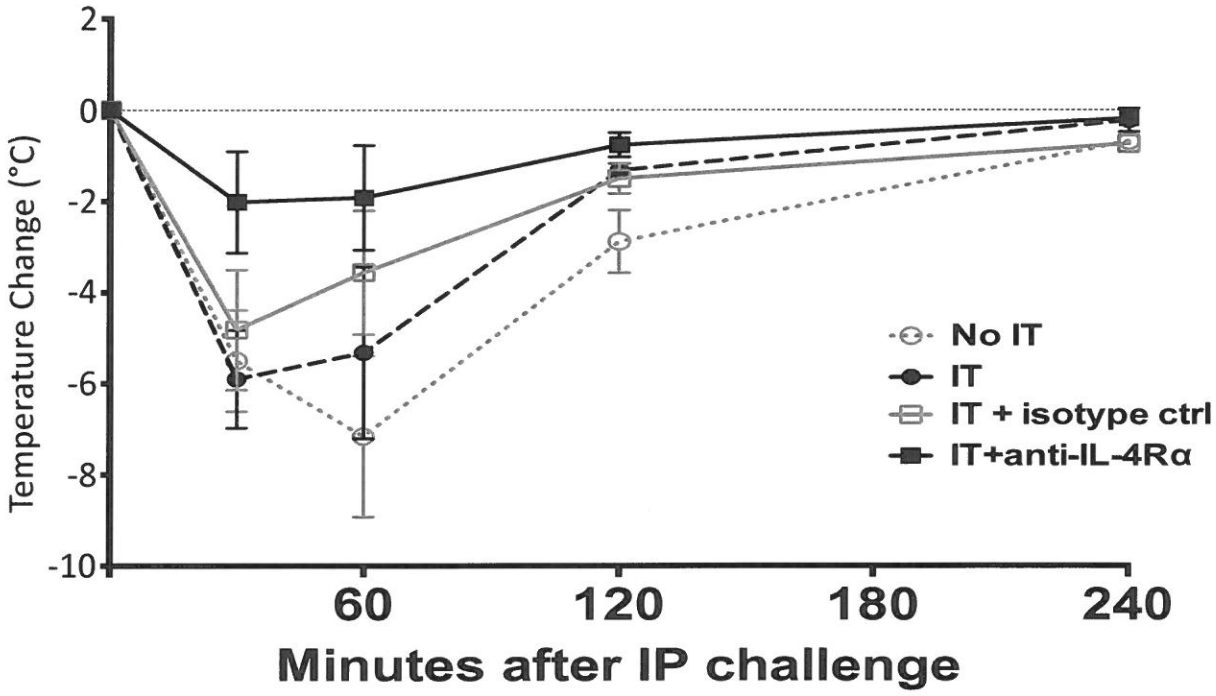

2
0
-2
-4
-6
-8
-10
Temperature Change (°C)
60
120
180
240
Minutes after IP challenge
No IT
IT
IT + isotype ctrl
IT+anti-IL-4Rα

Figure 13