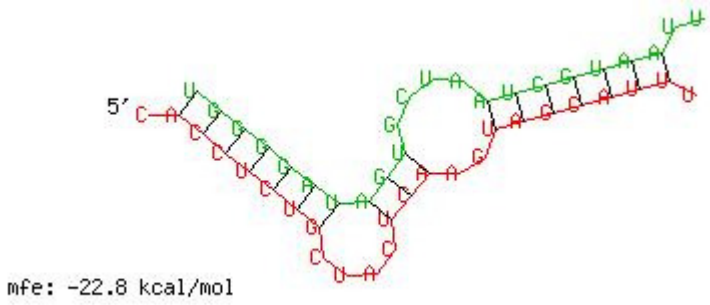
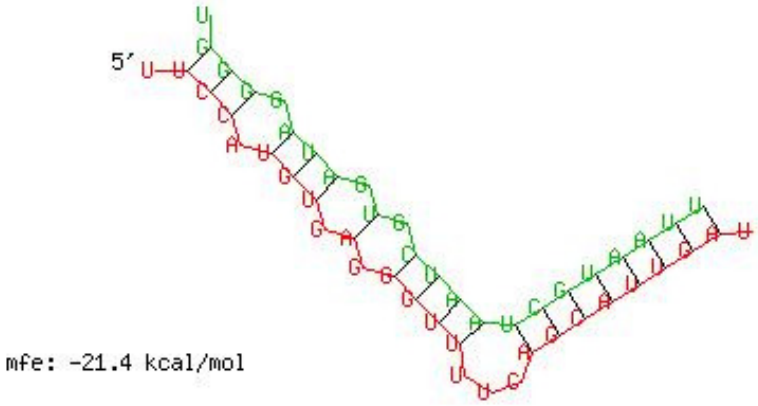


Site 1



Site 2

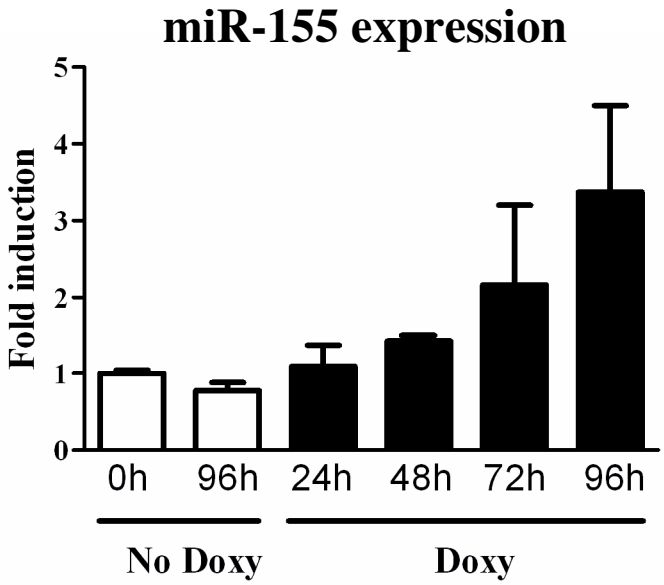
Supplement Figure S1. Predicted structure for miR-155 pairing to each site in the 3'UTR of IL13Rα1. Also shown is the correspondent predicted minimum free energy hybridisation. Site 1 shows miR-155 hybridization to positions 1049-1071 in the 3'UTR of IL13Rα1; Site 2 shows miR-155 hybridization to positions 1399 and 1424 in the 3'UTR of IL13Rα1.

H. sapiens	TTT----CTTCACCTCTGCTACTCAAG**T--AGCATT**TACTGTGTCTTTGGTTT
P. troglodytes	TTT----CTTCACCTCTGCTACTCAAG**T--AGCATT**TACTGTGTCTTTGGTTT
P. pygmaeus	TTT----CTTCACCTCTGCTACCCAAG**T--GGCATT**TACTGTGTCTTTGGTTT
M. mulatta	TTT----CTTCACCTCTGCTACTCAAG**T--AGCATT**TACTGTGTCTTTGGCTT
C. jacchus	TGT----CTTCACCTCTGCTACTCAAT**T--AGTATT**TACTGTGTCTTTGGCTT
M. musculus	GCCCACCTTTCATTTCTGCTATTCAA-----**GTTTT**GACTATGTATCTAGCTT
R. norvegicus	GCTTACCTTTCATTTCTGCTACTCAAG**TCAAGTATA**GACTATGTATCTAGCTT
B. taurus	CTT----CTTCACCACTGCTATTCAGA**TCAAGTATT**TAGCACACGTCCGGATT
C. lupus familiaris	CTT----CTTAATCTCTGCCGATCA---**---GATATT**CACCAGGTGT---GCCT
E. caballus	TGT----CTTCACCTCTGCTACTCAGA**TCAAGTACT**CACTATGTGTCTAGATT

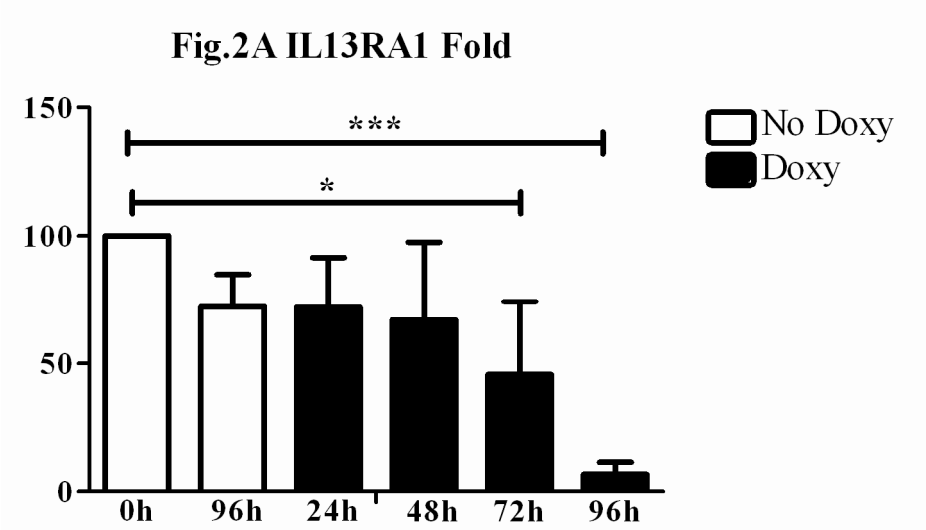
Supplement Figure S2. Conservation of miR-155 targeting "Site1" in the 3'UTR's of different species.

```
H. sapiens      TTCCATGTGAG----------------GGTTTTCAGCA-TTGA-TATT----T------GTGC
P. troglodytes TTCCATGTGAG----------------GGTTTTCATCA-TTGA-TATT----T------GTGC
P. pygmaeus     TTCCATGTGAG----------------GGTTTTCAGCA-TTGA-TATT----T------GTGC
M. mulatta      TTCCATGTGAG----------------GGTTTTCAGCA-TTGA-TATT----T------GTGC
C. jacchus      TTCTGTGTGAG----------------GGTTTTCAGCA-TTGA-TATT----T--ATCTATGC
M. musculus     TTACCTGTGAGCCTGCAATTATTTGAGGTTTTTGAGCAATTGG-TGTT----TCT----ATGT
R. norvegicus   TTCCCTGTGAGCCTGCAA---TTTGAGATTTTCAAGCAATTGG-TGTT----TCT----GTGT
B. taurus       TTCTATGTGAGTCTGCATTTATTTGAAGGTTTTCAGCA-TTTACTGTT----T------ATGC
C. lupus f.     TTCTGCGTGAGTCTGCATTTCTTTGAAGGTTTTCAGCA-TTTACTAAT----T------ATGC
E. caballus     TGTTGTGTGAGTCTGCATTTCTTTGAAGGTTTTCAGCA-TTTACTTTTTCTCT------ACGC
```

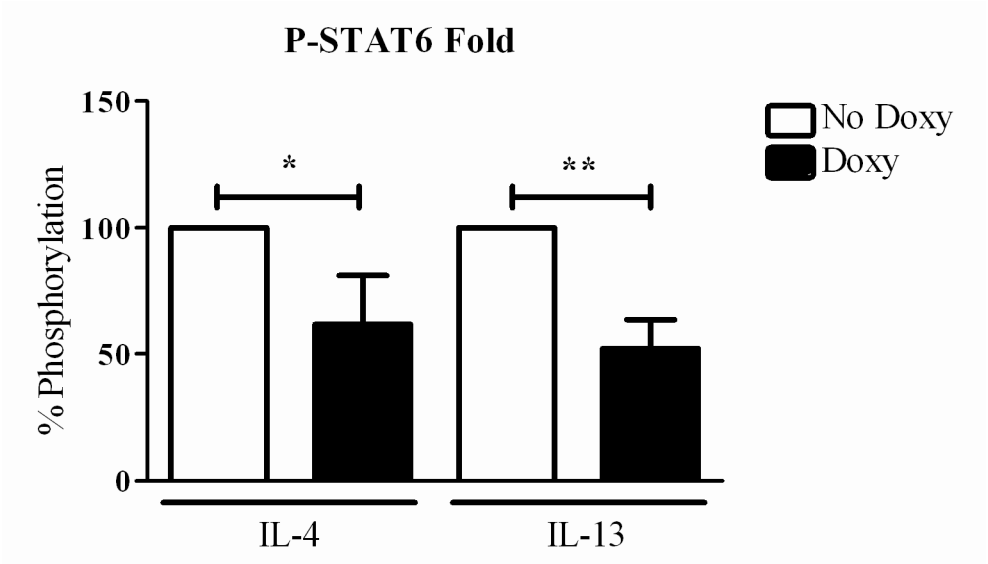
Supplement Figure S3. Conservation of miR-155 targeting "Site2" in the 3'UTR's of different species.



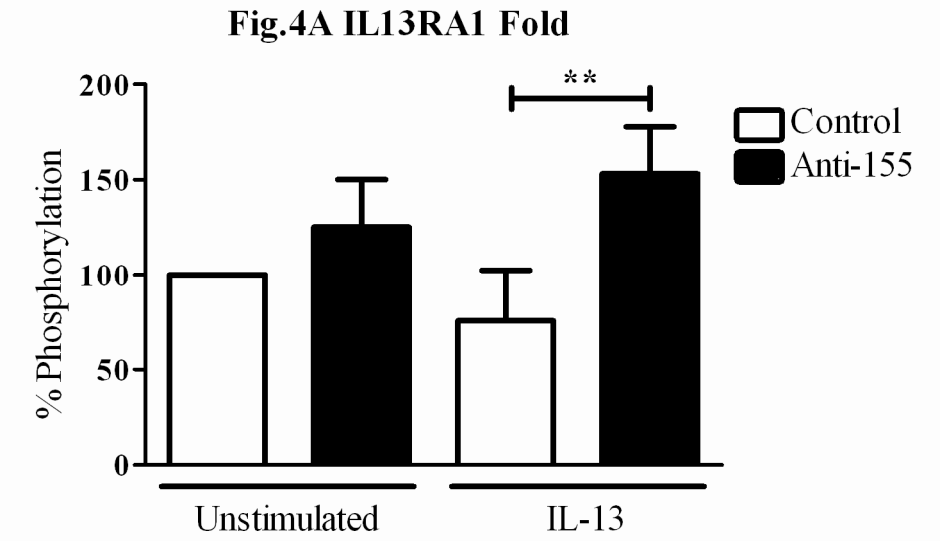
Supplement Figure S4. MiR-155 fold increase upon addition of Doxycycline to THP1-155 cells. Control experiment for Fig 2 and Fig 3.



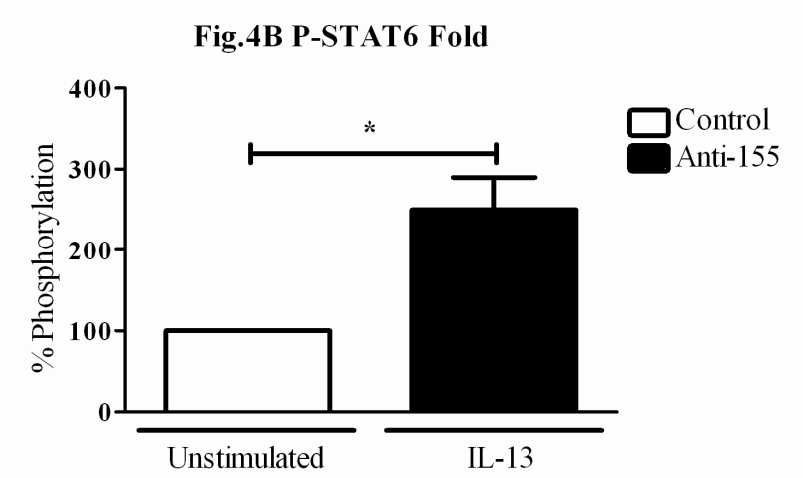
Supplement Figure S5. IL13RA1 protein levels in THP1-155 cells after doxycycline treatment. Statistical analysis of three independent western blot experiments that match results shown in Fig 2A. *p≤0.05; *** p≤0.001



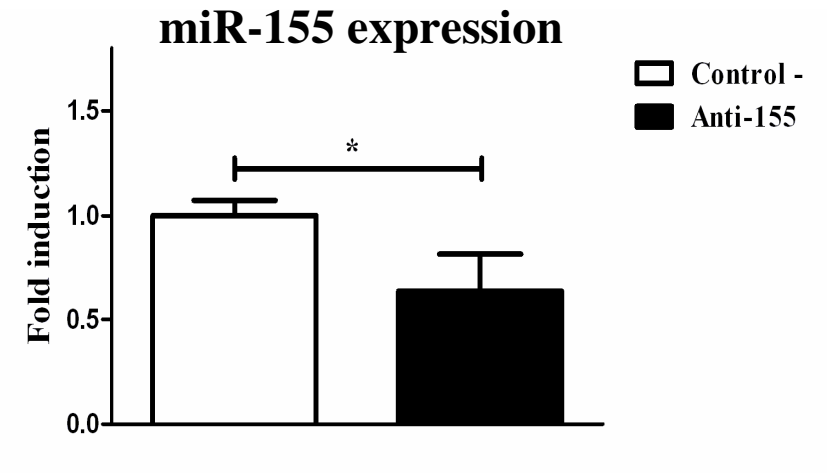
Supplement Figure S6. P-STAT6 levels in THP1-155 cells after doxycycline treatment and IL4 or IL13 stimulation. Statistical analysis of three independent western blot experiments that match results shown in Fig 3A. *p≤0.05; ** p≤0.01



Supplement Figure S7. IL13RA1 protein levels in macrophages after anti-miR-155 transfection. Statistical analysis of three independent western blot experiments that match results shown in Fig 4A. ** p≤0.01



Supplement Figure S8. P-STAT6 levels in macrophages after anti-miR-155 transfection. Statistical analysis of three independent western blot experiments that match results shown in Fig 4B. *p≤0.05



Supplement Figure S9. MiR-155 knock down efficiency in human macrophages at day 3 before IL-13 treatment. Control experiment for Figs. 4 and 5.