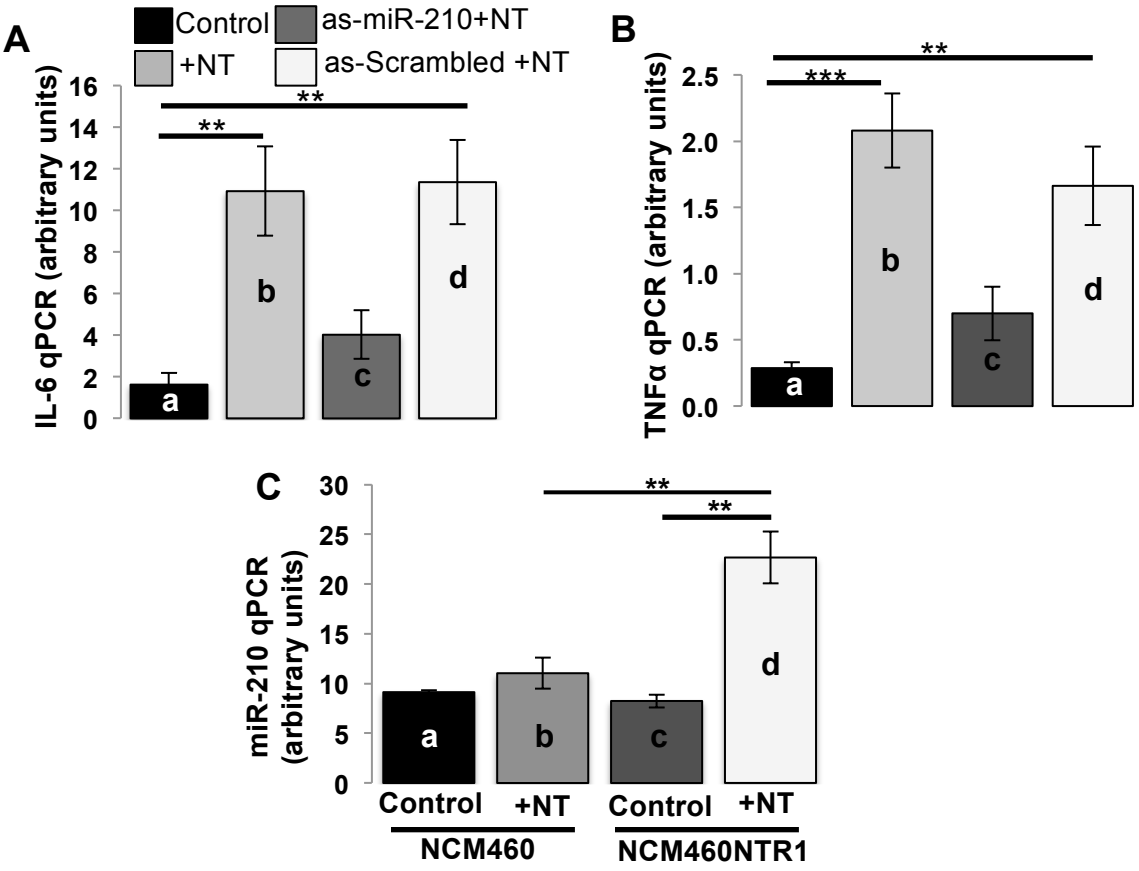
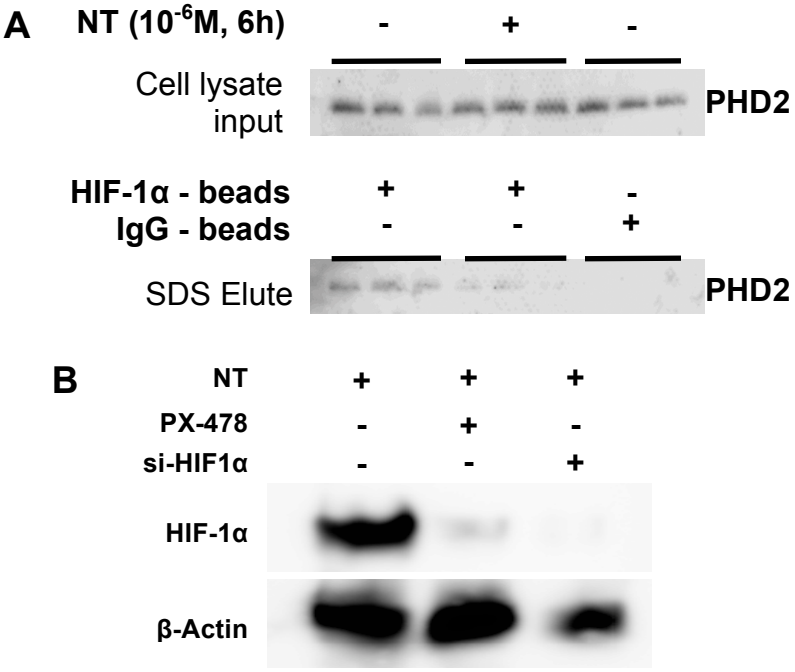
Supplementary Figure 1



NCM460 cells stably transfected as indicated with NTR1 (NCM460NTR1) were treated as indicated for 6 h with NT (10^{-7}M). **(A & B)** Cells were also treated as indicated with as-miR-210 or as-Scrambled, and **(A)** IL-6 and **(B)** TNFα levels of expression were assessed using qPCR. **(C)** MiR-210 levels of expression were assessed using qPCR. Statistical analysis was performed using student's t test. **p<0.01, ***p<0.001

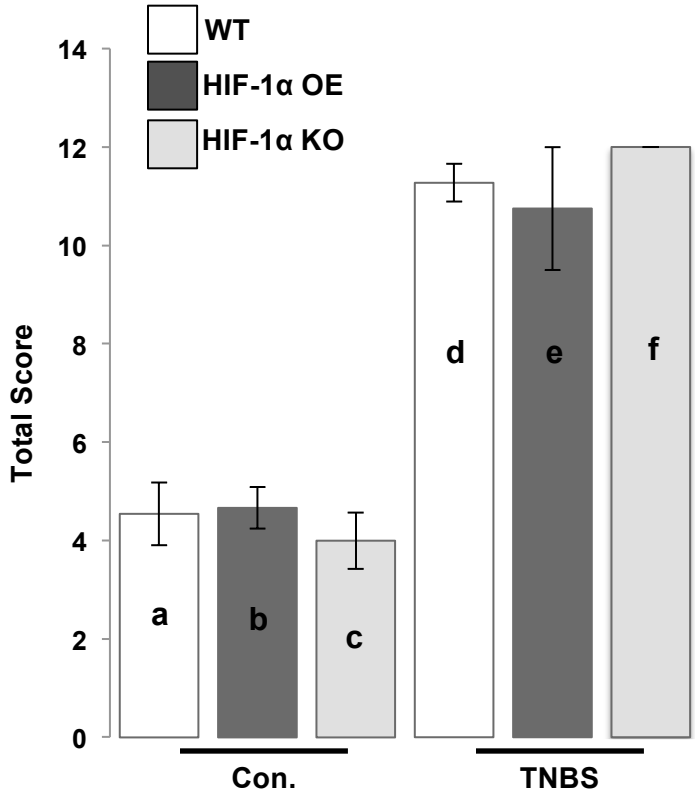
IL-6
a vs b: p=0.0056
a vs d: p=0.0036
TNFα
a vs b: p=0.0007
a vs d: p=0.0037
miR-210
b vs d: p=0.0088
c vs d: p=0.0018

Supplementary Figure 2



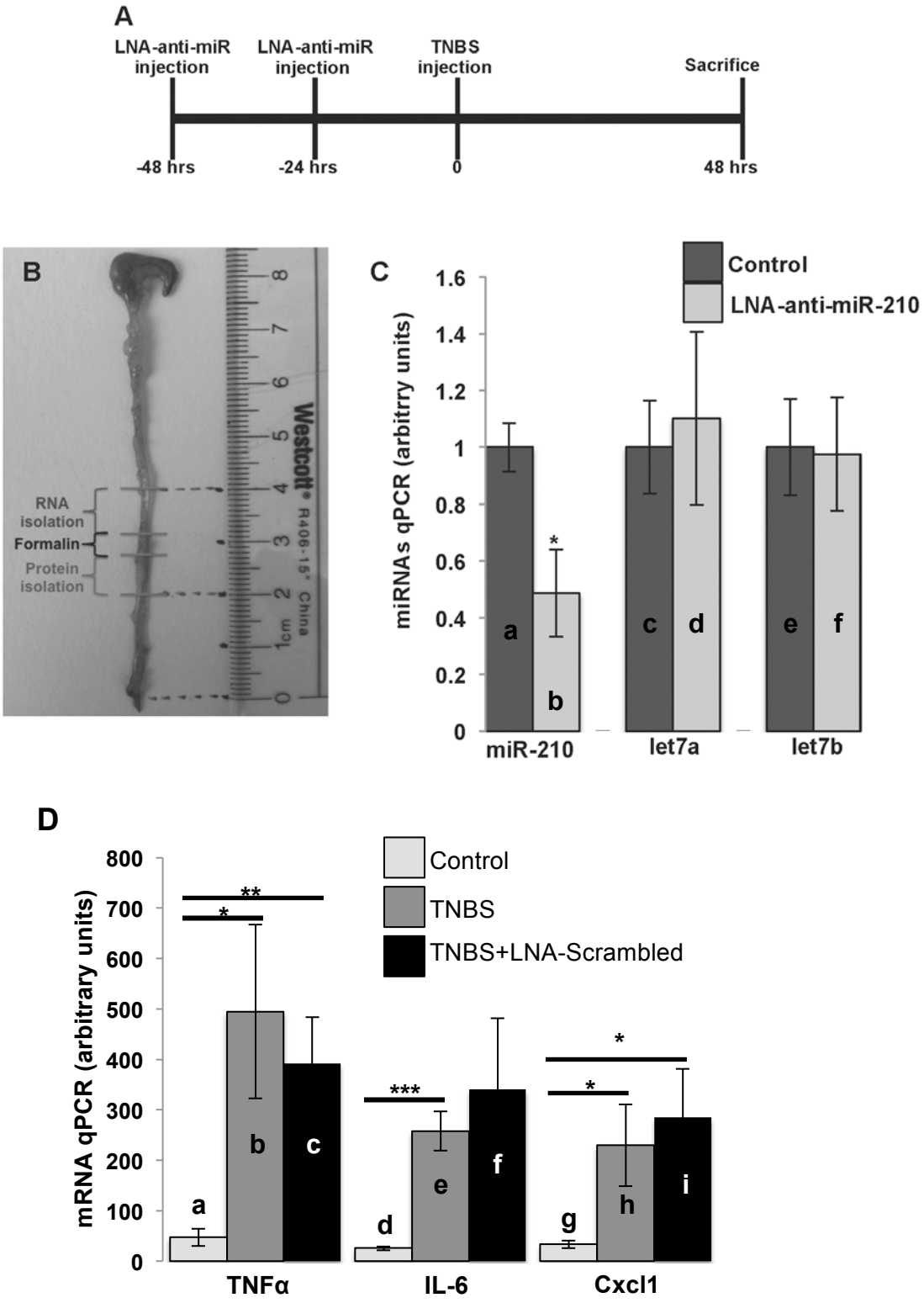
NCM460 cells stably transfected with NTR1 (NCM460NTR1) were treated as indicated with **(A)** NT (10^{-7}M, 6 h) and **(B)** NT (10^{-7}M, 6 h) in the presence or absence of pretreatment with PX-478 ($40x10^{-6}$ M, 18 h) or with si-HIF-1α. **(A)** Equal protein of and total cell lysates were incubated with Dynal magnetic beads coupled as indicated with anti-HIF-1α monoclonal antibody or non-specific human IgG. HIF-1α bound prolyl-hydroxylase 2 (PHD2) was detected by Western Blot analysis of the resulting SDS elutes using anti-PHD2 antibody. Normalization was achieved via incubation of equal protein cell lysate with antibody bound beads between samples. **(B)** Western blot analysis of total cell lysates was performed using anti-HIF-1α monoclonal antibody followed by anti-β-Actin polyclonal antibody serving as loading control. Data are represented by cropped images from the two separate original membranes.

Supplementary Figure 3



HIF-1α-OE, HIF-1α-KO and control littermates (n=3 up to n=11) were treated as indicated with TNBS and total histological score of H&E staining of colon tissues was assessed.

Supplementary Figure 4



(A) Mice received intracolonic enema of LNA-anti-miR-210 (10mg/kg), 48 h and 24 h before receiving intracolonic enema of TNBS (500mg/kg). 48 h later mice (n=8 per group) where sacrificed and **(B)** colon tissues where collected for RNA and protein isolation as well as immunohistochemistry (emersion in formalin). **(C)** Levels of expression for miR-210, let7a and let7b were assessed by qPCR. **(D)** Control (C57BL6/J) mice untreated (control) or received as indicated intracolonic enema of non-specific LNA-Scrambled (10mg/kg), 48 h and 24 h before receiving as indicated intracolonic enema of TNBS (500mg/kg). 48 h later mice (n=4) where sacrificed, colon tissues where collected for RNA isolation and expression levels of the inflammatory markers TNFα (**a vs b:** p=0.0438; **a vs c:** p=0.0039; **b vs c:** p=0.4101), IL-6 (**d vs e:** p=0.0006; **d vs f:** p=0.0874; **e vs f:** p=0.0874), and Cxcl1 (**g vs h:** p=0.0522; **g vs i:** p=0.0405; **h vs i:** p=0.6772) were assessed by qPCR. Statistical analysis was performed using student's t test. *p<0.05, **p<0.01, ***p<0.001