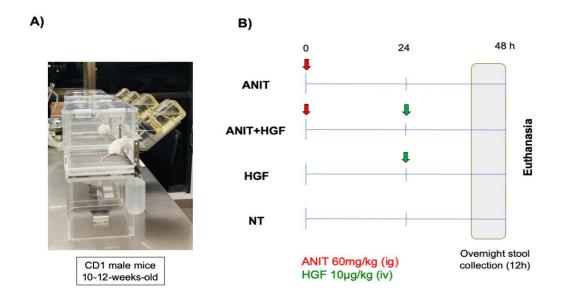
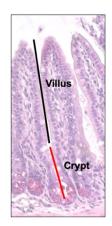
## The hepatocyte growth factor induces an anti-inflammatory and repairing response in the cholestasis-induced colon damage

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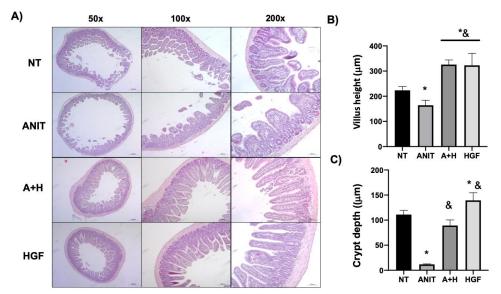
## Supplementary data



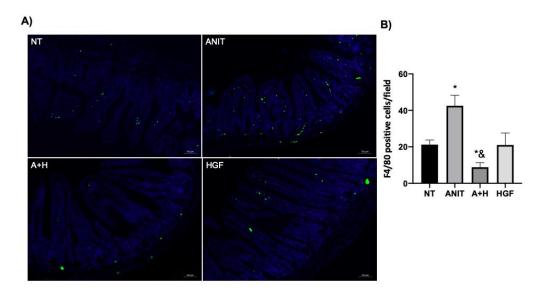
Supplementary figure 1. Experimental design of the study. A) mice were placed in metabolic cages 12 h previous to euthanasia. B) Schematic overview of the treatment procedure and timeline. HGF, hepatocyte growth factor; ANIT,  $\alpha$ -naphthyl isothiocyanate; NT, Not treated.



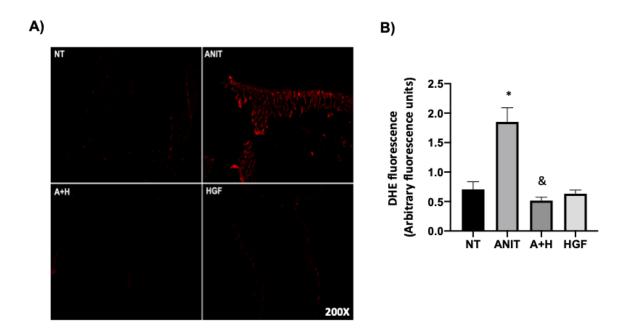
**Supplementary figure 2.** Reference of the villus morphometry. The villus height was measured from the villus tip to crypt junction (black line), and crypt depth was recorded as the profundity of the invagination between adjacent villi (red line).



Supplementary figure 3 Histomorphological characteristics of ileum tissue from mice under cholestasis and HGF treatment. A) Histology appearance by H&E routine staining. B) Villus height and C) Crypt depth measurement, according to supplementary figure 2. The images are representative of at least four mice. HGF, hepatocyte growth factor; ANIT,  $\alpha$ -naphthyl isothiocyanate; A+H, ANIT+ HGF; NT, Not treated. Each column represents the average ± SEM in at least three mice, \* p < 0.05 vs NT; & p < 0.05 vs ANIT.



Supplementary figure 4. Macrophages infiltration in the ileum. A) Representative image of marker F4/80 (green) immunofluorescence in ileum tissue. Original magnification 200X. B) Quantification of the F4/80 positive cells per field. HGF, hepatocyte growth factor; ANIT,  $\alpha$ -naphthyl isothiocyanate; A+H, ANIT+ HGF; NT, Not treated. Each bar represents the average ± SEM in at least three mice. \* p < 0.05 vs NT.



Supplementary figure 5. HGF decreases ileum oxidative stress induced by ANIT treatment. A) Reactive oxygen species (ROS), determined by dihydroethidium (DHE) fluorescence in fresh colon tissue from all groups. Original magnification 200X. B) Quantification of DHE fluorescence in arbitrary fluorescence units determined by Zen Software (Carl Zeiss, Jena, Germany). Images are representative of at least three experimental animals. 100X original magnification. HGF, hepatocyte growth factor; ANIT,  $\alpha$ -naphthyl isothiocyanate; A+H, ANIT+ HGF; NT, Not treated. Each column represents the average ± SEM in at least three mice. \* p < 0.05 vs NT; & p < 0.05 vs ANIT.