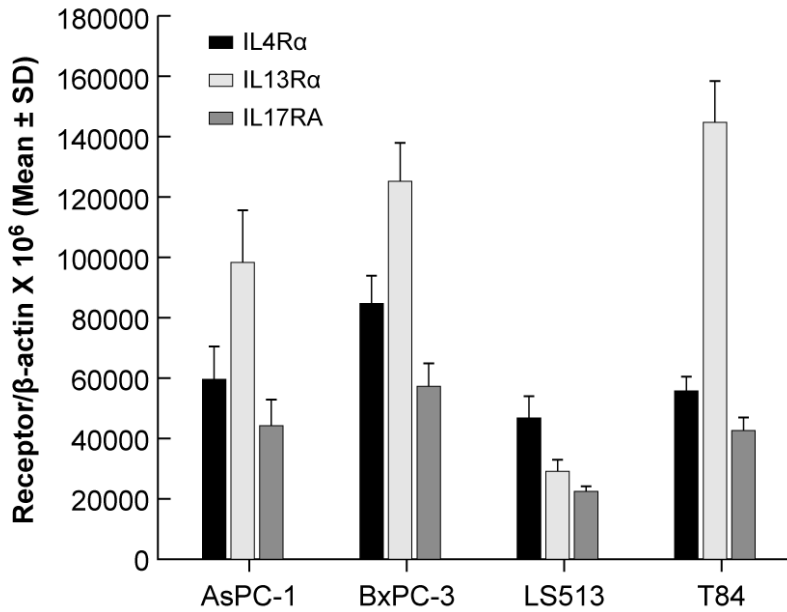
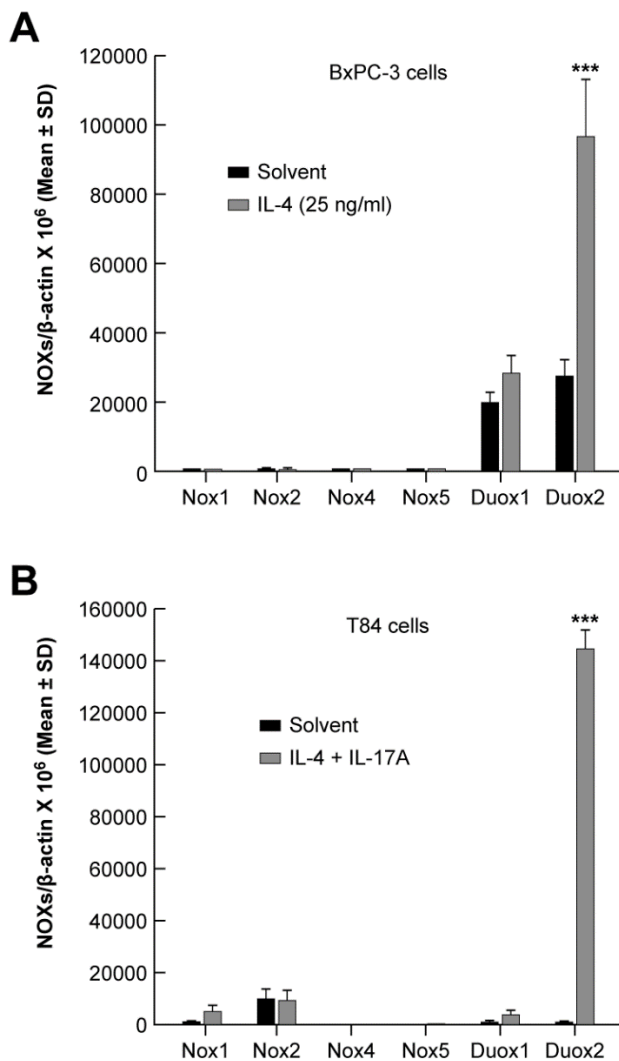


## Figure S1

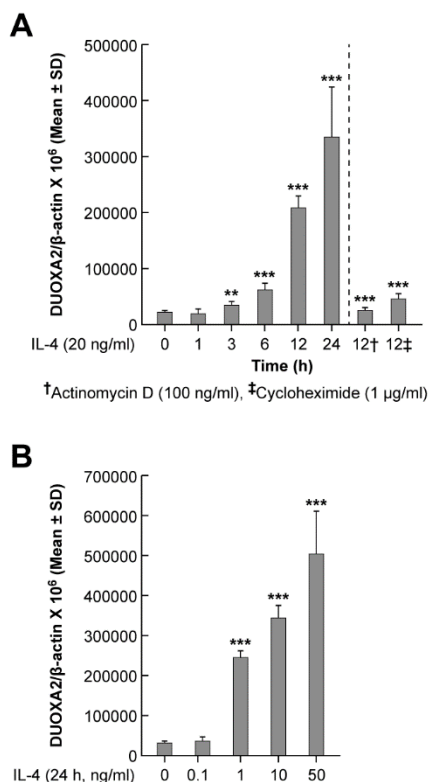


**SUPPLEMENTAL FIGURE S1.** Endogenous expression of cytokine receptors in colon and pancreatic cancer cell lines. Quantitative RT-PCR analysis of relative IL4R $\alpha$  (black bars), IL13R $\alpha$  (light grey bars), and IL17RA (dark grey bars) expression normalized to  $\beta$ -actin in human pancreatic cancer cell lines AsPC-1 and BxPC-3, and in colon cancer cell lines LS513 and T84, respectively. Data represent mean  $\pm$  SD for at least 3 independent experiments.

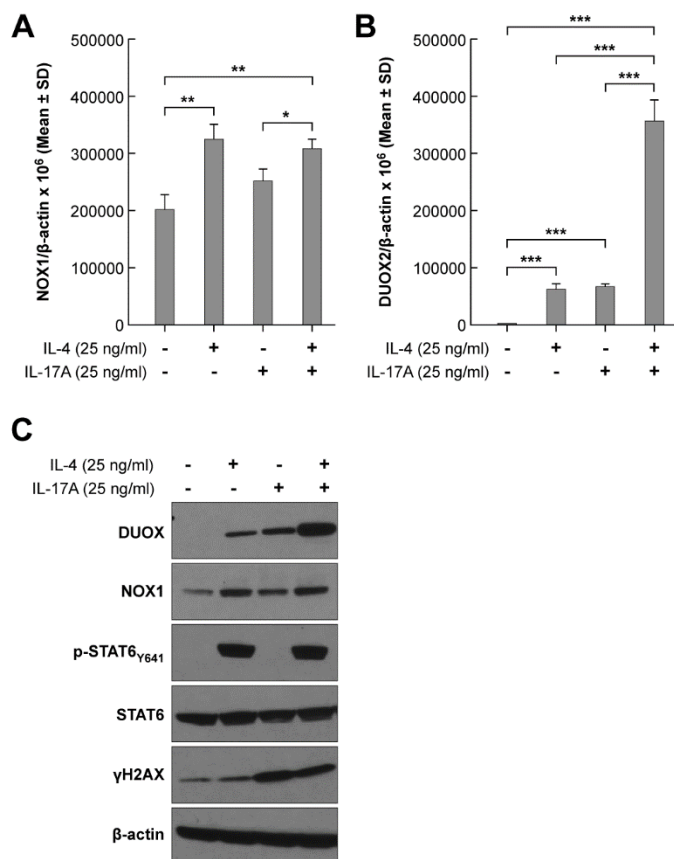
## Figure S2



**SUPPLEMENTAL FIGURE S2.** RNA expression of NOX family enzymes in human cancer cell lines. **(A-B)** Expression of 6 NADPH oxidase isoforms relative to  $\beta$ -actin. Cells were grown for 24 h in serum-free conditions with solvent or IL-4 (25 ng/ml) for BxPC-3 **(A)**, and with solvent or 50 ng/ml IL-4 and IL-17A for T84 cells **(B)**. Data represent mean  $\pm$  SD for at least 3 independent experiments. \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$  between the 2 conditions compared.

**Figure S3**

**SUPPLEMENTAL FIGURE S3.** Time- and concentration-dependent overexpression of DUOX2 mRNA by IL-4 in BxPC-3 cells. **(A)** BxPC-3 cells grown in serum free medium were treated with IL-4 (20 ng/ml) for different durations (0, 1, 3, 6, 12, 24 h) without inhibitor, or pre-treated with actinomycin D (100 ng/ml, †) or cycloheximide (1  $\mu$ g/ml, ‡) for 30 minutes before 12 h incubation with IL-4 (20 ng/ml). Relative DUOX2 mRNA expression normalized to  $\beta$ -actin was determined by quantitative RT-PCR. **(B)** Concentration response of IL-4-induced DUOX2 expression in BxPC-3 cells treated with IL-4 at different concentrations (0-50 ng/ml) for 24 h. Relative DUOX2 mRNA expression normalized to  $\beta$ -actin was evaluated using quantitative RT-PCR. \*\* $p$ <0.01, \*\*\* $p$ <0.001 between the 2 conditions compared for three independent experiments. Data represent mean  $\pm$  SD for 3 independent experiments.

**Figure S4**

**SUPPLEMENTAL FIGURE S4.** IL-4 with or without IL-17A upregulates DUOX2 mRNA and DUOX protein in LS513 cells. (A-C) LS513 cells grown in serum-free medium were treated with IL-4 (25 ng/ml) and IL-17A (25 ng/ml) alone or in combination for 24 h. NOX1 (A) and DUOX2 (B) mRNA, and NOX1 and DUOX protein expression (C) were determined using quantitative RT-PCR and Western analysis, respectively.  $*p < 0.05$ ,  $**p < 0.01$ , and  $***p < 0.001$  between the 2 conditions; data represent mean  $\pm$  SD for 3 independent experiments.