

SUPPLEMENTAL FIGURE LEGENDS

Figure S1 HRG- β 1 induces FABP5 promoter activity in a dose-dependent manner. MCF-7 cells were transiently transfected with a luciferase reporter driven by an 800 bp of the proximal FABP5 promoter. Cells were treated with varying doses of HRG- β 1 for 16 hr., lysed and analyzed for luciferase activity. Luciferase activity was normalized to β -galactosidase. Data are mean \pm S.D (n=3).

Figure S2 HRG- β 1-induced FABP5 promoter activity is mediated by ERK, PI3K and NF- κ B. MCF-7 cells were transiently transfected with a luciferase reporter driven by an 800 bp of the proximal FABP5 promoter. Cells were pre-treated with PD (20 μ M), wortmannin (100 nM), or PDTC (100 μ M) for 1 hr. prior to the addition of HRG- β 1 (30 ng/ml, 16 hr.). Cells were lysed and analyzed for luciferase activity. Luciferase activity was normalized to β -galactosidase. Data are mean \pm S.D (n=3).

Figure S3 KLF2 suppresses FABP5 promoter activity. MCF-7 cells were transiently transfected with a luciferase reporter driven by an 800 bp of the proximal FABP5 promoter. Cells were infected with Ad-KLF2 or Ad-GFP 24 hr. prior to treatment with HRG- β 1 for 16 hr. Cells were lysed and analyzed for luciferase activity. Luciferase activity was normalized to β -galactosidase. Data are mean \pm S.D (n=3).

Figure S4 Decreasing the expression level of FABP5 hampers the ability of HRG- β 1 to activate PPAR β / δ . MCF-7 cells were transiently transfected with a luciferase reporter driven by 3X PPRE, and by an expression vector for PPAR β / δ . Cells were treated with HRG- β 1 for 16 hr., lysed and analyzed for luciferase activity. Luciferase activity was normalized to β -galactosidase. Data are mean \pm S.D. of two independent experiments carried out in triplicates. *p=0.04 vs. HRG- β 1 control.

Figure S5 FABP5 mediates HRG- β 1-induced proliferation of MDA-MB453 mammary carcinoma cells. **(a)** MDA-MB453 cells were serum-starved for 24 hr. and treated with HRG- β 1 (30 ng/ml) for 4 hr. FABP5 mRNA levels were assessed by Q-PCR and normalized to 18S RNA. mean \pm S.D (n=3). **(b)** MDA-MB453 cells were infected with an empty lentivirus or lentivirus harboring FABP5shRNA. 3 days following infection, cells were treated with HRG- β 1 for 24 hr. Cell proliferation was assessed by cell counting. Data are mean \pm S.D. (n=3) *p=0.0004. Inset: immunoblot demonstrating decreased expression of FABP5.

Fig. S1

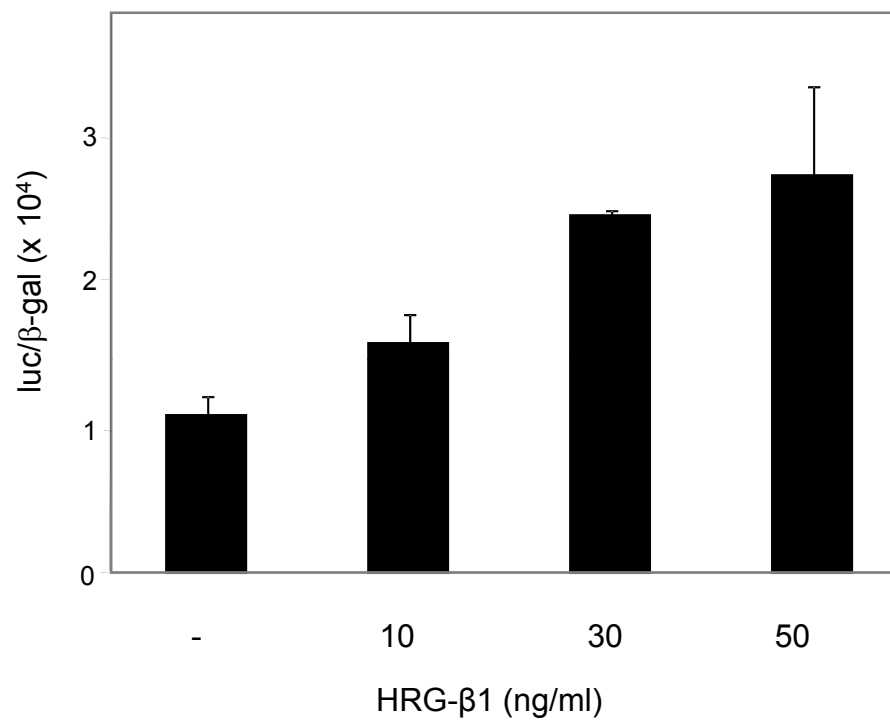


Fig. S2

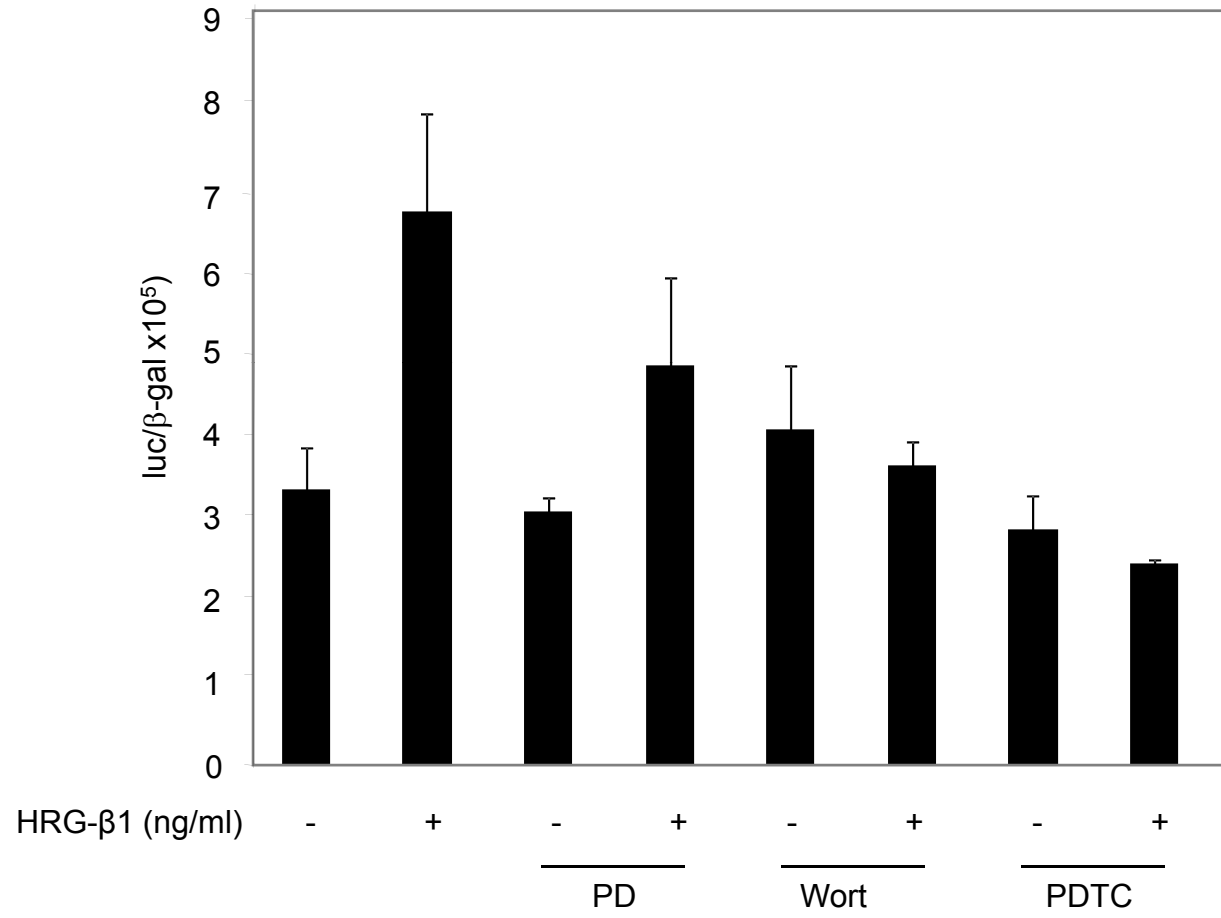


Fig. S3

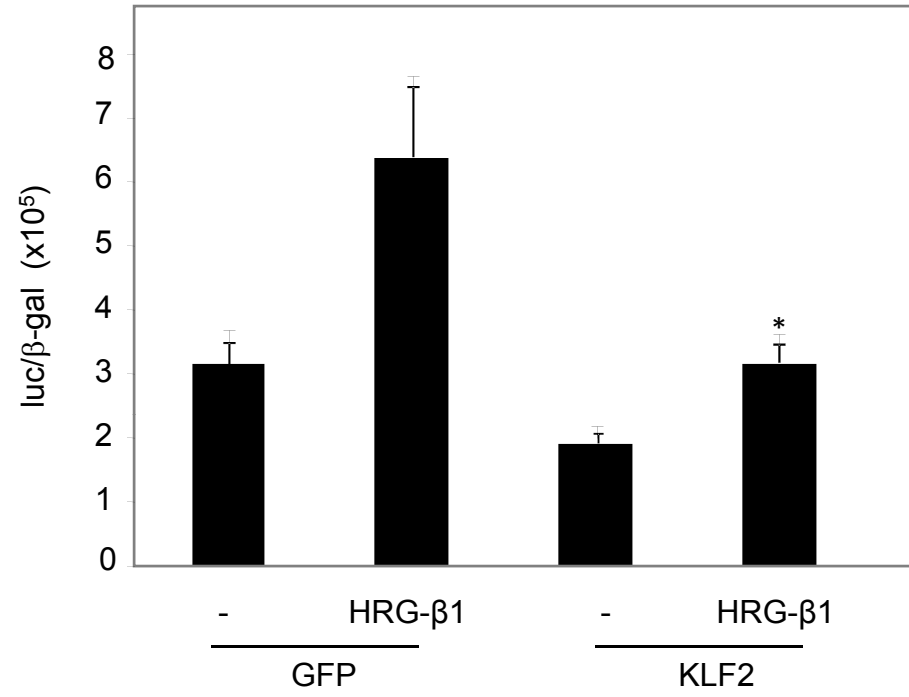


Fig. S4

