Supplemental Material figure

Repression by SPBP is specific for the activated ER$\alpha$ AF1. (A) SPBP specifically represses the activity of the phosphoserine mimic AF1(3xE) tethered to DNA by the Gal4 DNA binding domain (Gal93). (B) SPBP represses an ER$\alpha$-GR chimera containing the ER$\alpha$ AF1 and DBD (ER.GR, activated with dexamethasone) but not one with the GR AF1 and DBD fused to the ER$\alpha$ HBD (GR.ER). (C) SPBP does not repress ER$\beta$ activity. In this experiment, ER$\beta$ (and its AF1) was activated by EGF in the absence of estrogen. (D) SPBP represses ER$\alpha$ activated by the dioxin receptor (the AhR/Arnt heterodimer). 1 µM 3-methyl-cholanthrene (3MC) was used to activate the dioxin receptor. Except for panel B, the bar graphs of panels A and D, and C represent averages of duplicates and triplicates, respectively, of representative experiments.
SUPPLEMENTAL MATERIAL

A

HepG2

![Graph showing relative luciferase activity for different treatments with Gal93, Gal93-AF1, and Gal93-AF1(3xE).]

SPBP - + - + - +

B

HepG2

![Graph showing relative luciferase activity for different treatments with ER, GR, and ER, GR.]

SPBP - - + + - + - + + - +
EGF - + + - + + - + + + +
Dex - - - + + + + +
OHT + + + +

C

HepG2

![Graph showing relative luciferase activity for different treatments with ERβ, EGF, and SPBP.]

ERβ + + + + +
EGF - + - + +
SPBP - - + + +

D

HepG2

![Graph showing relative luciferase activity for different treatments with wt ERα, Ahr/Arnt, SPBP, 3MC, and OHT.]

wt ERα + + + + + + +
Ahr/Arnt - - + + + + +
SPBP - - - - + + +
3MC - + - + - + +