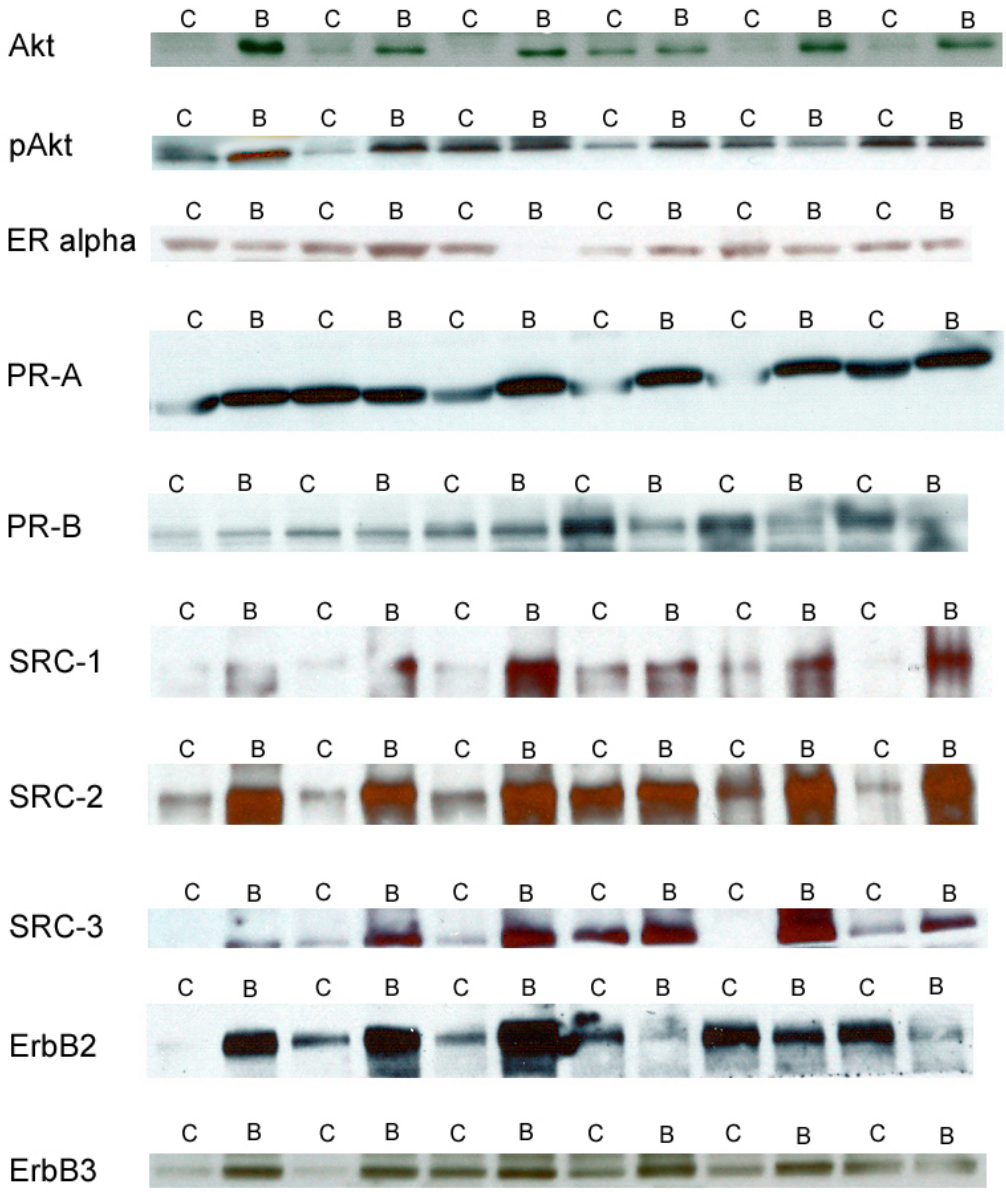
Oral Exposure to Bisphenol A Increases Dimethylbenzanthracene-Induced Mammary Cancer in Rats

Sarah Jenkins[1], Nandini Raghuraman[1], Isam Eltoum[2,3], Mark Carpenter[4], Jose Russo[5], and Coral A. Lamartiniere[1,2]

[1]Department of Pharmacology and Toxicology, University of Alabama at Birmingham, Birmingham, Alabama
[2]UAB Comprehensive Cancer Center, University of Alabama at Birmingham, Birmingham, Alabama
[3]Department of Pathology, University of Alabama at Birmingham, Birmingham, Alabama
[4]Department of Mathematics and Statistics, Auburn University, Auburn, Alabama
[5]Breast Cancer Research Laboratory, Fox Chase Cancer Center, Philadelphia, Pennsylvania

Supplemental Material, Figure 1

Representative western blots for Akt, phospho-Akt,. estrogen receptor alpha, progesterone receptors A & B, steroid receptor co-activators 1-3, erbB-2 and erbB-3 in mammary glands of 50 day old rats exposed lactationally to dams treated with 250 µg bisphenol A (BPA)/kg body weight/day or sesame oil. Mammary glands were subjected to western blot analysis. C: sesame oil controls; B: BPA exposed.


Akt
C B C B C B C B C B C B
pAkt
C B C B C B C B C B C B
ER alpha
C B C B C B C B C B C B
PR-A
C B C B C B C B C B C B
PR-B
C B C B C B C B C B C B
SRC-1
C B C B C B C B C B C B
SRC-2
C B C B C B C B C B C B
SRC-3
C B C B C B C B C B C B
ErbB2
C B C B C B C B C B C B
ErbB3
C B C B C B C B C B C B