A and B) Western blots for the expression of ABCC1 and ABCG2 in a panel of breast cancer cell lines. MCF-7 clonal cell line that was selected for resistance to doxorubicin or docetaxel was used as a positive control

C) MDA-MB-231 cells were treated with 50 nM siCTRL or different siRNA constructs targeting LPA₁. After 48 h, mRNA was collected for RT-PCR analysis of receptor expression for LPA₁,₂,₃.

A) Hs578T breast ductal carcinoma cells express higher Nrf2 compared to Hs578Bst cell line (patient-matched peripheral tissue). n=4. Results were expressed relative to tubulin expression.

4T1 cells (B & C), A549 and 8305C cells (D) and MDA MB 231 cells (E) were treated as in Figure 3.

F) HepG2 or MDA-MB-231 cells were treated with t-BHQ or the proteosomal inhibitor, MG132 (25 µM), for 4 h prior to collecting the cell lysates. They were immunoblotted for Nrf2, which detects N-terminus.

G) A panel of sub-confluent breast cancer cell lines was grown in full growth media and cell lysates were immunoblotted for Nrf2, which detects the C-terminus. H) AREc32 cells grown in 6-well plates were transfected with 2 µg of EGFP plasmid (lanes 1-3) or EGFP-Nrf2 plasmid (lane 4) and incubated for 18 h. They were starved for 12 h followed by treatments with 10 µM t-BHQ or 10 µM MG132 for 4 h. Cell lysates were immunoblotted for Nrf2 expression. The band-shifted EGFP-Nrf2 is shown.
A) HEK 293T cells were transfected with 0.5 µg of EGFP-Nrf2 and HA-tagged LPA1 or empty vector plasmids/well. They were incubated for another 16 h before starving them for 12 h. Treatments were performed as described for another 12 h. Samples were fixed and then immunostained as described in Materials and Methods. Nuclear GFP fluorescence was determined by ImageJ analysis.

B) HepG2 cells were transfected with HA-tagged LPA1/2/3. After 24 h the cells were collected and immunoblotted for LPA receptor expression (left panel). They were starved for 12 h before treating with LPA for 4 h. Relative Nrf2 to GAPDH was expressed from 3 different experiments (right panel).