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CORRECTION OPEN

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Correction: Halting ErbB-2 isoforms retrograde transport to the nucleus as a new theragnostic approach for triple-negative breast cancer

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The original version of the manuscript contained an error in Fig. 1H and its corresponding Source data (Fig. S9C). Specifically, the β tubulin and Histone H3 blots corresponding to MDA-231 cells in the bottom panel of Fig. 1H were unintentionally mistaken while assembling the figures. We have rectified this issue by including the correct blots for β tubulin and Histone H3 controls in MDA-231 cells within the corrected Fig. 1H. Additionally, the corrected Source data is available in the corrected Fig. S9C. This error in the loading control blots does not impact in the interpretation of the results presented in Fig. 1H, nor does it affect the general conclusions of Fig. 1 or of the entire article. The authors sincerely apologize for any confusion the error may have caused. The corrected figures can be found below. The original article has been corrected.

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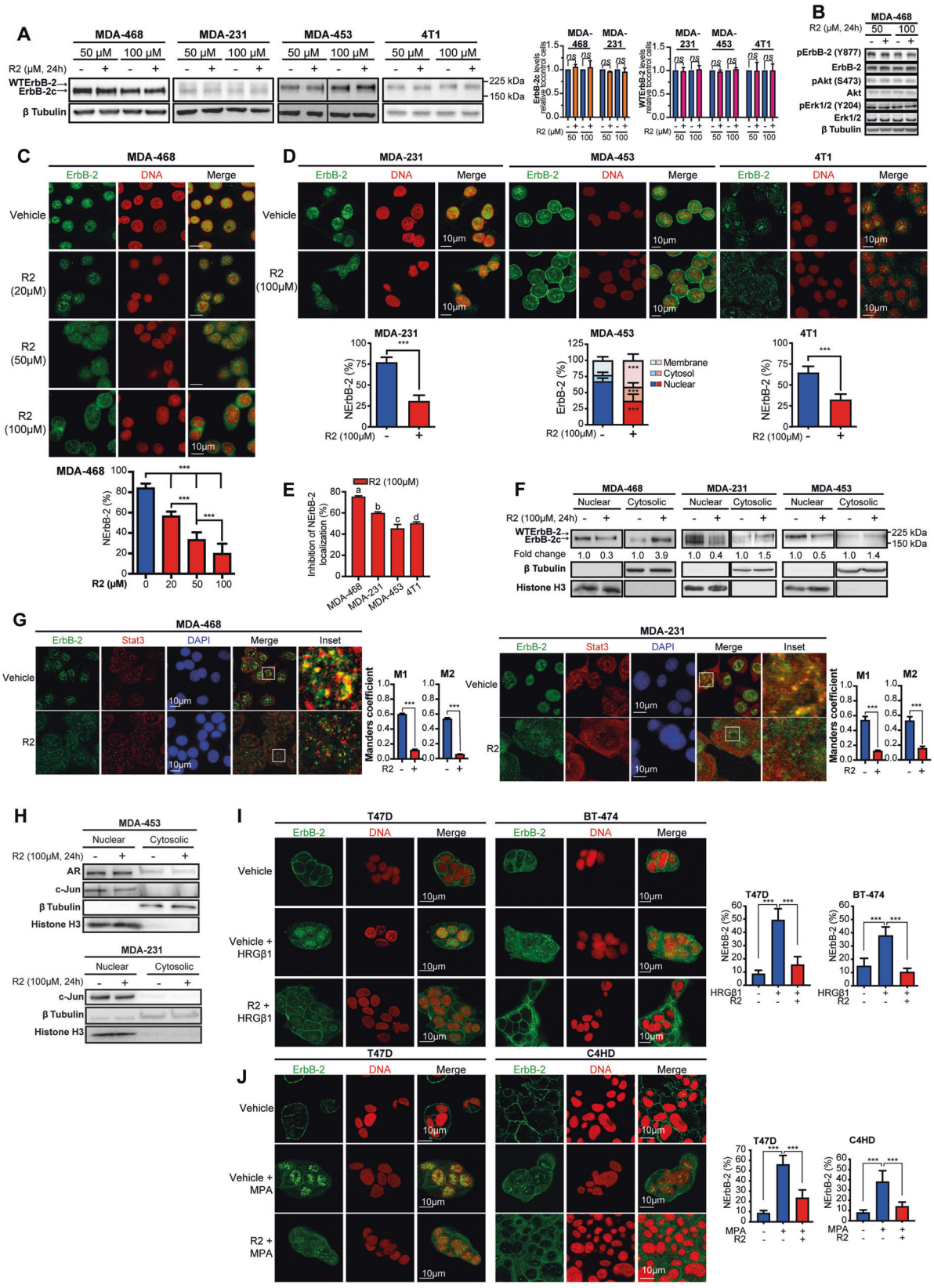
A
MDA-468
MDA-231
MDA-453
4T1
50 μM
100 μM
R2 (μM, 24h)
WTErbB-2→
ErbB-2c→
β Tubulin
225 kDa
150 kDa
ErbB-2c levels relative to control cells
WTErbB-2 levels relative to control cells
ns
R2 (μM)
B
MDA-468
R2 (μM, 24h)
pErbB-2 (Y877)
ErbB-2
pAkt (S473)
Akt
pErk1/2 (Y204)
Erk1/2
β Tubulin
C
MDA-468
ErbB-2
DNA
Merge
Vehicle
R2 (20μM)
R2 (50μM)
R2 (100μM)
10μm
NErbB-2 (%)
D
MDA-231
MDA-453
4T1
Membrane
Cytosol
Nuclear
E
R2 (100μM)
Inhibition of NErbB-2 localization (%)
a
b
c
d
F
Nuclear
Cytosolic
Fold change
1.0 0.3
1.0 3.9
1.0 0.4
1.0 1.5
1.0 0.5
1.0 1.4
Histone H3
G
Stat3
DAPI
Inset
M1
M2
Manders coefficient
H
AR
c-Jun
I
T47D
BT-474
HRGβ1
R2 + HRGβ1
J
C4HD
MPA
R2 + MPA

Fig. 1 R2 evicts WTErbB-2 and ErbB-2c from the nucleus of BC cells. A Left: Representative WB of ErbB-2 expression. Right: signal intensities of ErbB-2c and WTErbB-2 were analyzed by densitometry from three independent WBs performed as indicated. Fold change was calculated by normalizing the absolute levels of each ErbB-2 isoform to those of β tubulin, setting the value of vehicle-treated cells to 1. **B** Representative WB of cell lysates with the indicated phosphospecific or total antibodies. **C**, **D** ErbB-2 immunofluorescence (IF) in cells treated with R2 or vehicle (24 h). Bottom panels: quantitative analysis of ErbB-2 subcellular localization. Fluorescence intensity of nuclear, cytosolic, and membrane ErbB-2 was quantified and is plotted as percentage (mean ± SD, $n = 50$ per group) relative to total ErbB-2 in each cell. **E** Inhibition of NErbB-2 localization in cells from **C**, **D** (mean ± SEM). For **C**, **D** vs **A**: $P < 0.001$; for **C**, **A** vs **B**: $P < 0.01$, for **D** vs **B**: $P < 0.05$. **F** Nuclear and cytosolic lysates were analyzed by WB. Fold change was calculated for each compartment by normalizing ErbB-2 levels in treated vs control cells (value set to 1). **G** ErbB-2 and Stat3 were localized by IF and confocal microscopy in cells treated as in (**D**). Merged images show colocalization in yellow. The insets show boxed areas in detail. Right: Quantitative analysis of colocalization with Manders' coefficients (M1 and M2, mean ± SEM, $n = 50$ per group). **H** Subcellular distributions of AR and c-Jun evaluated as in (**F**). **I**, **J** Cells were pretreated with R2 (100 μM) or vehicle for 24 h and then treated with HRGβ1 (60 min) (**I**) or MPA (90 min) (**J**). ErbB-2 localization and NErbB-2 levels are depicted as in (**C**). ns: not significant, ***$P < 0.001$. For (**A**–**J**), $n = 3$. Original uncropped WB images are shown in Fig. S9.

The original article has been corrected.

ADDITIONAL INFORMATION

Supplementary information The online version contains supplementary material available at https://doi.org/10.1038/s41419-023-06339-1.