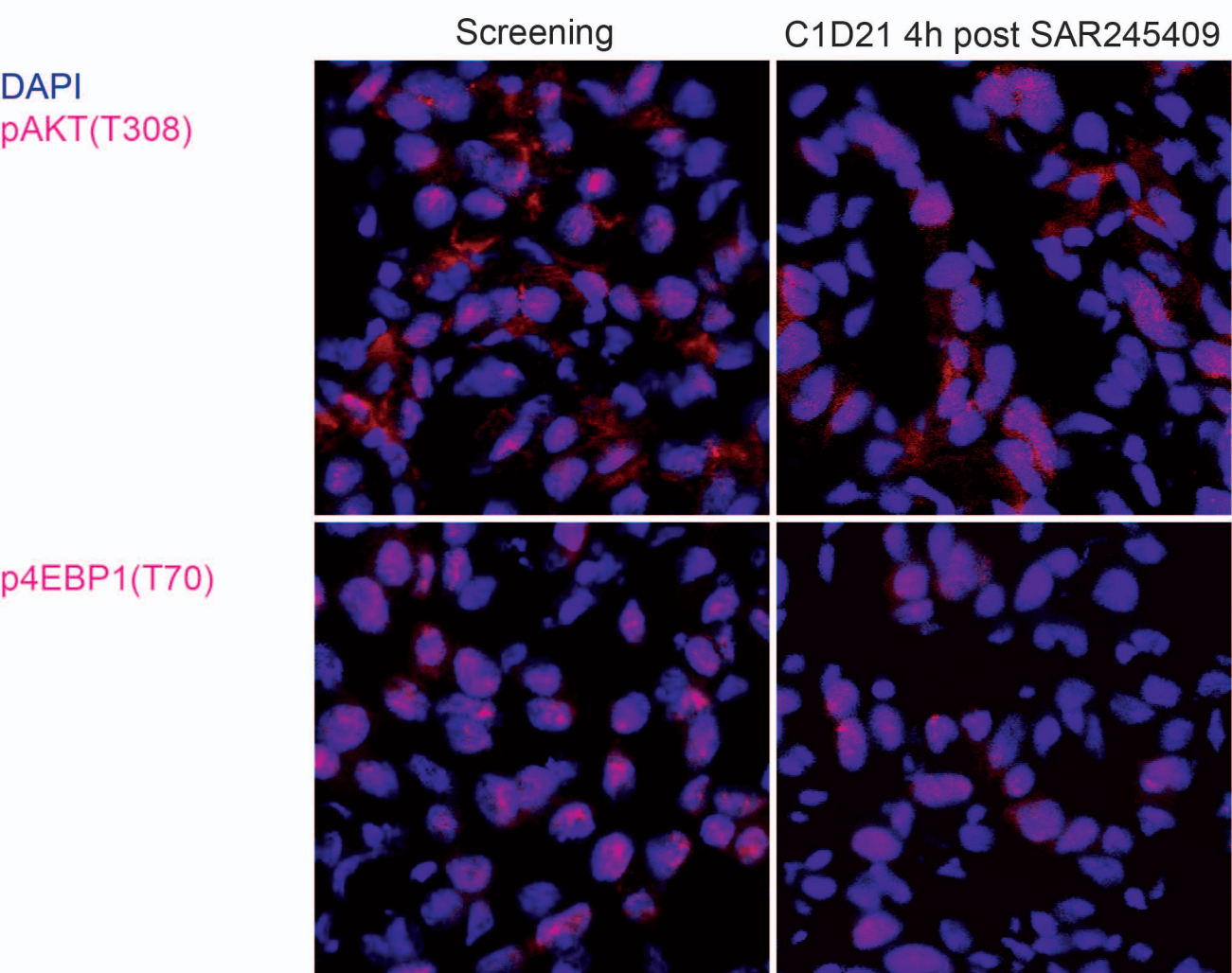
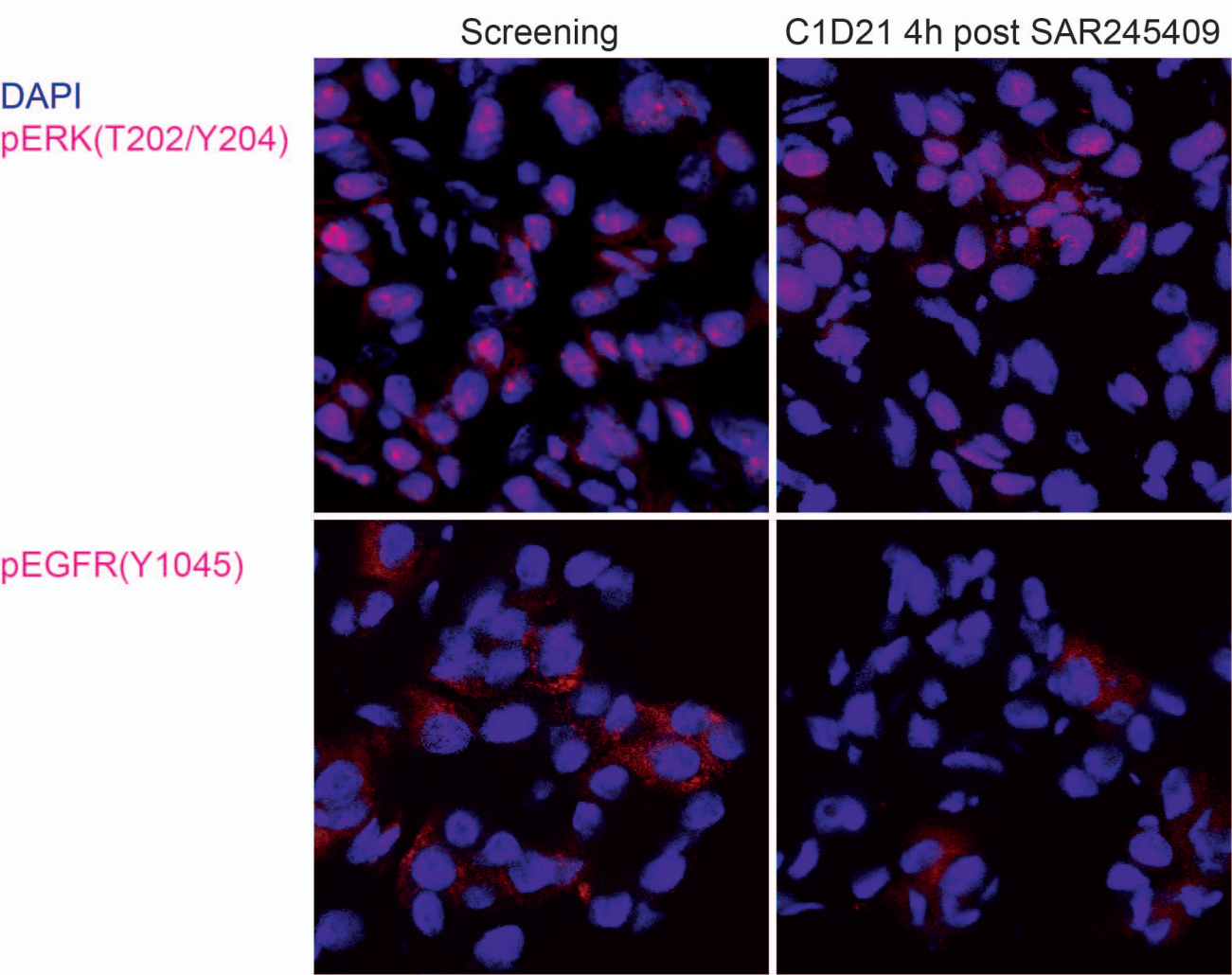


A



B



**Supplemental Digital Content 5: Reduction of phosphatidylinositol-3-kinase (PI3K) and epidermal growth factor receptor (EGFR)/mitogen-activated protein kinase (MAPK) pathway signaling by SAR245409 in combination with erlotinib in paired tumor biopsies from a patient with NSCLC adenocarcinoma (patient 1)**

- A) Effect of SAR245409 in combination with erlotinib on the PI3K signaling pathway documented by immunofluorescence staining of pAKT<sup>T308</sup> and p4EBP1<sup>T70</sup> in cross-sections of tumor biopsies collected at baseline and Cycle 1, Day 21 4 hours post-dose from a patient administered erlotinib at 100 mg once daily (QD) and SAR245409 at 30 mg QD. Representative fields were captured per readout (red for pAKT<sup>T308</sup> or p4EBP1<sup>T70</sup>, blue for 4',6-diamidino-2-phenylindole [DAPI]) at 400x magnification. Reductions in immunofluorescence of 57% (pAKT<sup>T308</sup>) and 60% (p4EBP1<sup>T70</sup>) were observed at Cycle1 Day 21 compared to baseline.
- B) Effect of SAR245409 in combination with erlotinib on the PI3K signaling pathway documented by immunofluorescence staining of pERK<sup>T202/Y204</sup> and pEGFR<sup>Y1045</sup> in cross-sections of tumor biopsies collected at baseline and Cycle 1, Day 21 4 hours post-dose from a patient administered erlotinib at 100 mg once daily (QD) and SAR245409 at 30 mg QD. Representative fields were captured per readout (red for pERK<sup>T202/Y204</sup> or pEGFR<sup>Y1045</sup>, blue for 4',6-diamidino-2-phenylindole [DAPI]) at 400x magnification. Reductions in immunofluorescence of 61% (pERK<sup>T202/Y204</sup>) and 38% (pEGFR<sup>Y1045</sup>) were observed at Cycle1 Day 21 compared to baseline.

AKT, serine/threonine-specific protein kinase; C, Cycle; D, Day; 4EBP1, 4E-binding protein 1; ERK, extracellular signal-regulated kinase.