Figure S9 Ras-Mapk signaling is inappropriately high BTICs and NHA-Ras cells. Phosphorylation status of down stream effectors of Ras signaling pathway Erk1/2 was assayed at different phases of the cell cycle. Erk1 and Erk2 are phosphorylated by MEK1/2 at Thr202/Tyr204 and Thr185/Tyr187 as a direct result of Ras/Raf/Mek activity. Using FACS as a read out, we observed significant increases in the intensity of phopho-Erk1/2 staining in G2/M populations of both Ras-transformed NHAs and G166-BTICs as compared to the G2/M populations of NSCs and NHAs. Use of MEK inhibitor PD 0325901 and Ras-NHA versus NHA controls demonstrated that mitotic phosphorylation was specific to the Ras/MAPK pathway.