



Figure S2: ImageStream analysis of cell cycle and Golgi localization. (A) HeLa cells were synchronized as described in A, stained for GRASP55, CCDC86, GM130 and DRAQ5, and analyzed by ImageStream. (B) The co-localization of GRASP55 or CCDC86 with GM130 was quantified using the bright detail similarity feature. (C) Synchronized HeLa cells were fixed at peak mitosis, and then stained with ERK1c and GM130 Abs, and DRAQ5 followed by ImageStream analysis. Cells from prophase, prometaphase, metaphase, anaphase and telophase were selected by their DNA structure according to their DRAQ5 staining. (D) The co-localization of ERK1c and the GM130 was quantified using the bright detail similarity feature, and was measured for G2 and mitotic cells. (E) HeLa cells were synchronized for 9 h, and either left untreated (NT), or treated with 20 μ M roscovitine (Ros), 2 μ M PD184352 (), or both for 1 h. Cells were fixed and stained with ERK1c and GM130 Abs, as well as DRAQ5 followed by ImageStream analysis. (F) The co-localization of ERK1c and the GM130 was quantified using the bright detail similarity feature, and was measured for G2, Pro/ProM, and mitotic (metaphase-telophase) for each treatment.





