

Supplementary Figure Legends

Supplementary Figure 1. FACS plots for ALDH and CD44 and CD24 controls showing the gating strategy. Gates were created based on cellular staining with isotype control antibodies.

Supplementary Figure 2. Baseline gene expression profiles identify signatures of response to single agent MRK-003 and the combination of MRK-003 and GEM.

A: Ingenuity Pathway Analysis (IPA) showed that up-regulation of components in the NF κ B signaling pathway is associated with single agent MRK-003 sensitivity. Red, expression of that gene is upregulated when compared to the mean of all expression values. Green, expression is downregulated.

B: up-regulation of B cell receptor (BCR) signaling pathway is associated with response to MRK-003 plus GEM combination.

Supplementary Figure 3. Representative H&E stained sections from Panc374 xenografts.

Tumors in the MRK-003 and combination treatment arm showed induced necrosis that occurred in patches scattered throughout the tumor, indicating that MRK-003-induced intratumoral necrosis may also contribute to curb tumor growth.