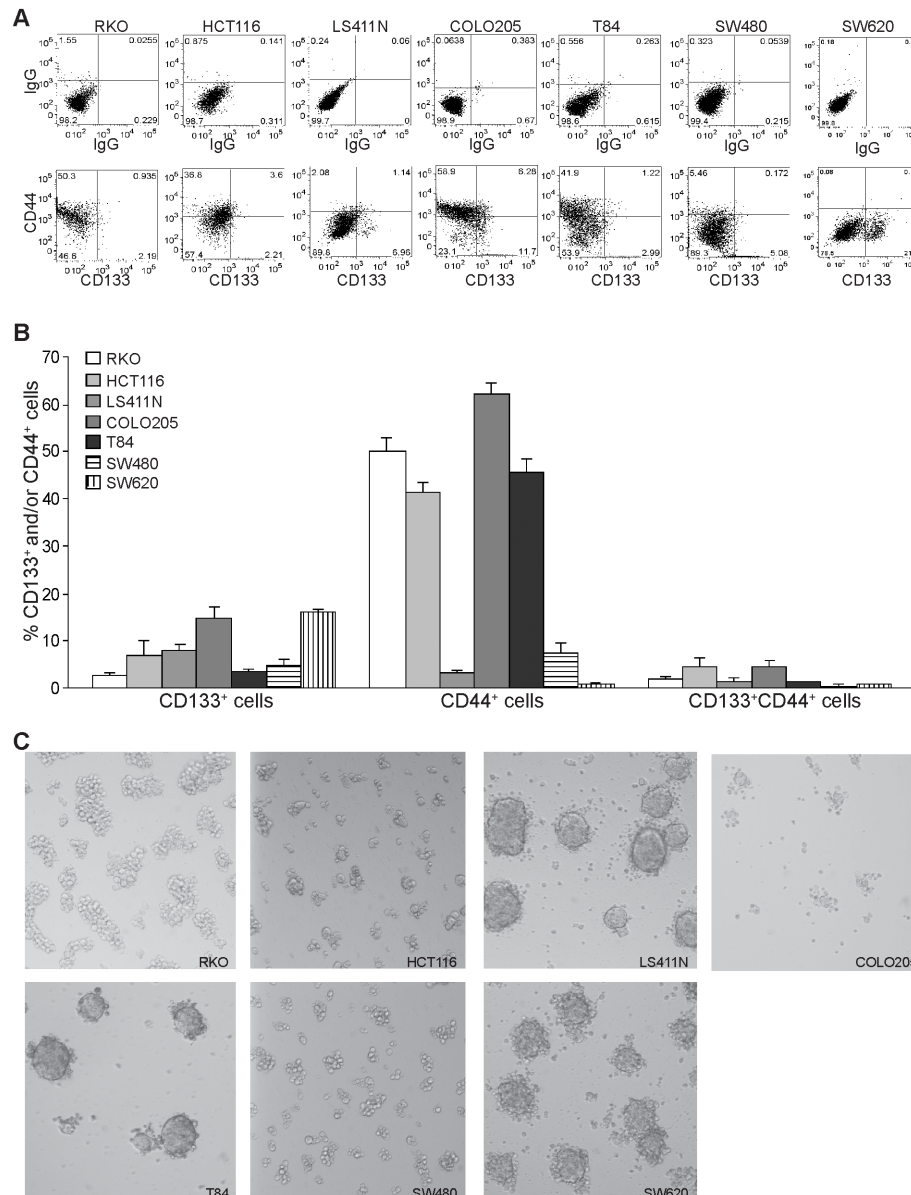
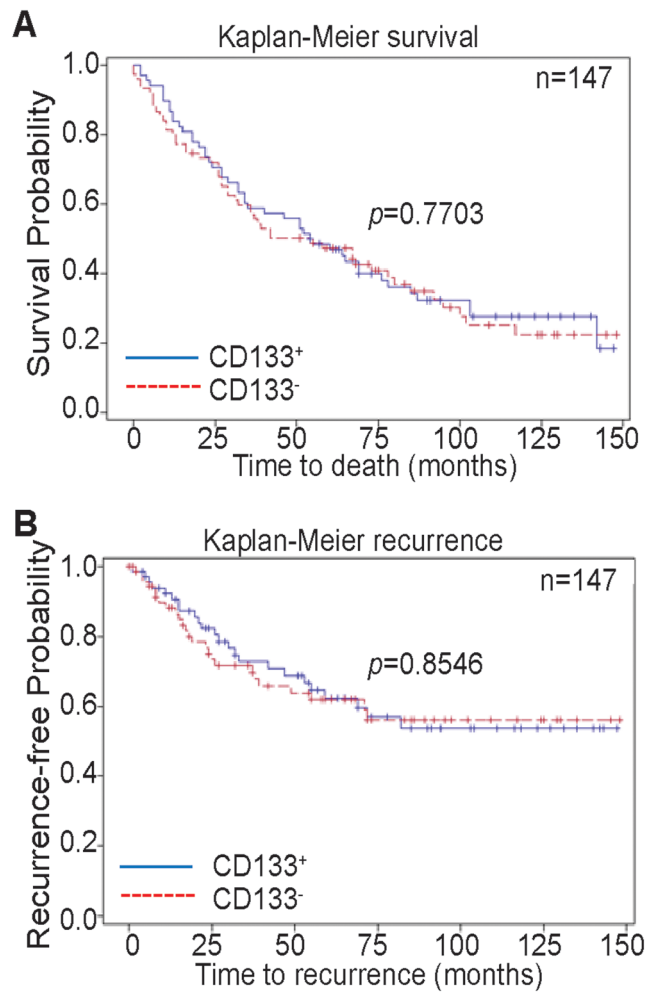


## CD133<sup>+</sup>CD24<sup>lo</sup> defines a 5-Fluorouracil-resistant colon cancer stem cell-like phenotype

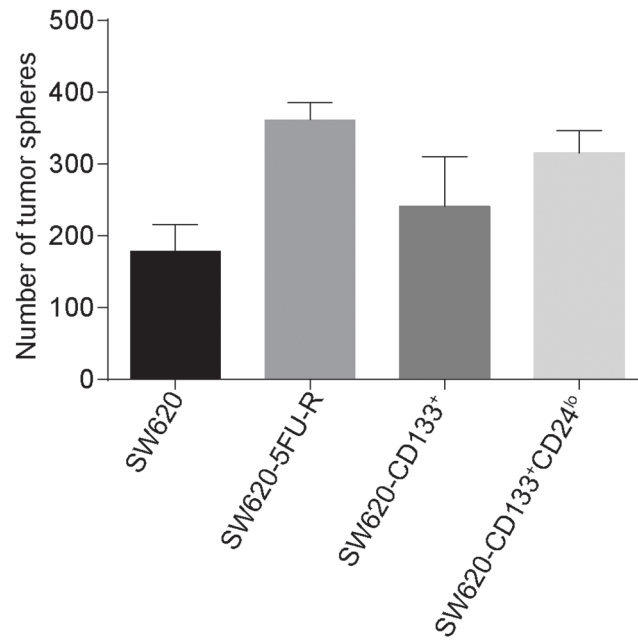
### SUPPLEMENTARY FIGURES



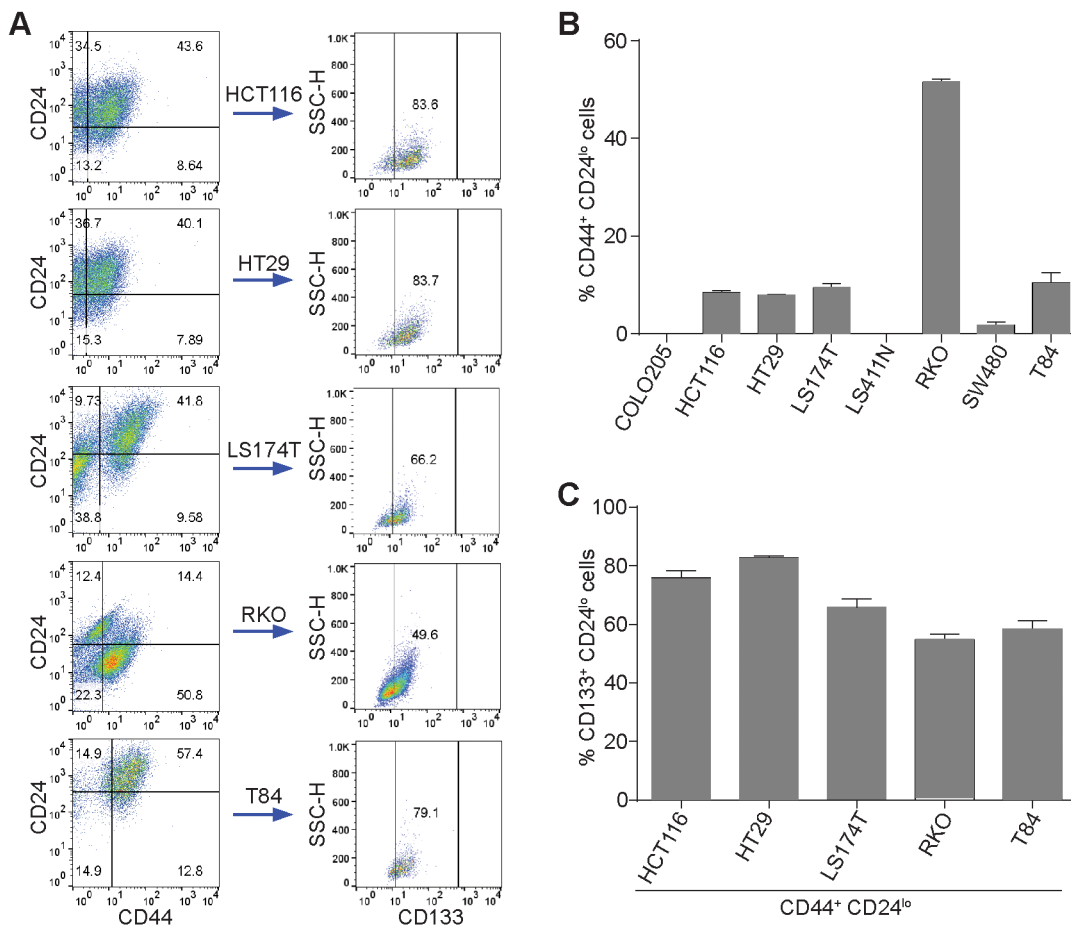
**Supplementary Figure S1: Colon cancer stem cell markers and sphere formation potential of human colon carcinoma cell lines.** **A.** Seven human colon cancer cell lines were stained with CD133- and CD44-specific antibodies and analyzed by flow cytometry. Shown are representative images of CD133- and CD44-expressing cells. **B.** The percentages of CD133<sup>+</sup>, CD44<sup>+</sup> and CD133<sup>+</sup>CD44<sup>+</sup> cells as shown in A are quantified. Column: mean; Bar: SD. **C.** Sphere formation capacity of human colon cancer cell lines. The indicated human colon cancer cell lines were cultured in the serum-free medium plus EGF and basic FGF in ultralow adhesive culture plates for 7 days. Shown are representative images of each of the cell lines.



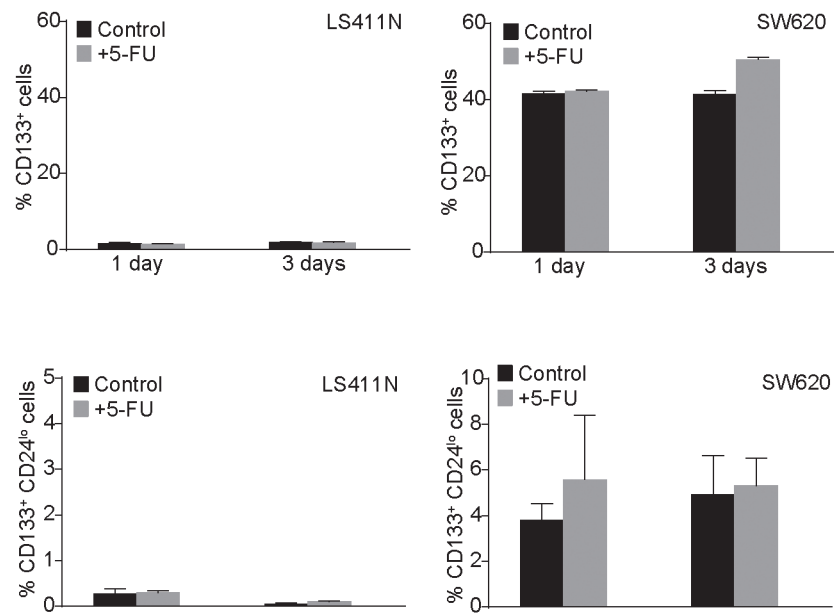
**Supplementary Figure S2: Correlation between CD133 protein level and patient survival and cancer recurrence in human colon cancer patients.** Tissue microarray slides containing human colon cancer specimens (n=141) were stained for CD133 protein level. The stained specimens were then graded and statistically analyzed for correlation with patient survival **A.** and cancer recurrence **B.** Each variable is indicated by colored lines in the plot.



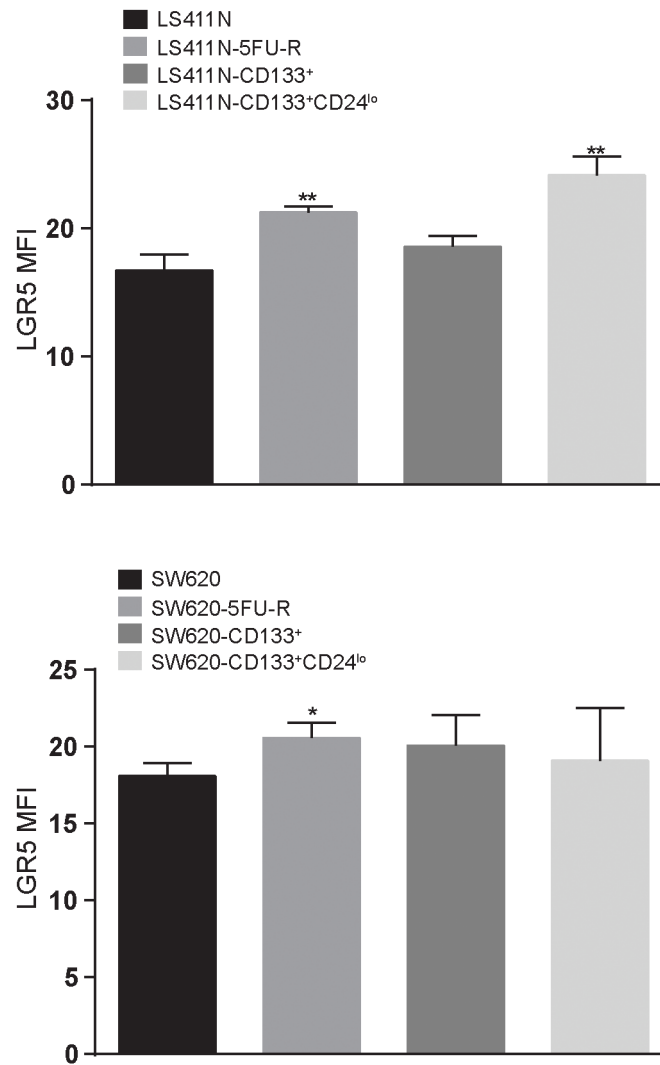
**Supplementary Figure S3: Sphere formation potential of colon carcinoma cells.** The four subsets of SW620 cells were cultured in ultra-low attachment 96-well plates. Spheres were counted under a microscope and expressed as number of spheres per well. Column: Mean; Bar: SD.



**Supplementary Figure S4: CD44<sup>+</sup>CD24<sup>lo</sup> human colon carcinoma cells are also CD133<sup>+</sup>.** **A.** Human colon carcinoma cell cells were stained with CD44-, CD24- and CD133-specific mAbs. CD44<sup>+</sup>CD24<sup>lo</sup> cells were then gated and analyzed for CD133<sup>+</sup> cells. Shown are representative flow cytometry plots of the five of the eight human colon carcinoma cell lines that have CD44<sup>+</sup>CD24<sup>lo</sup> cells. **B.** Quantification of CD44<sup>+</sup>CD24<sup>lo</sup> cells in eight human colon carcinoma cells. Column: Mean; Bar: SD. **C.** Quantification of CD133<sup>+</sup> cells in the CD44<sup>+</sup>CD24<sup>lo</sup> cell population. CD44<sup>+</sup>CD24<sup>lo</sup> cells as shown in A and B were gated and analyzed for % CD133<sup>+</sup> cells in this cell population. Column: Mean, Bar: SD.



**Supplementary Figure S5: 5-FU does not alter CD133 and CD24 expression level in human colon carcinoma cells.** Human colon carcinoma LS411N and SW620 cells were cultured in the presence of 5-FU at the indicated concentrations. Cells were collected at the indicated time points and stained with CD133- and CD24-specific mAbs. The stained cells were then analyzed by flow cytometry. CD133<sup>+</sup> and CD24<sup>+</sup> cells were quantified. Column: Mean; Bar: SD.



**Supplementary Figure S6: LGR5 protein levels in human colon carcinoma stem-like cells.** The four subsets of LS411N and SW620 cells were stained with LGR5-specific mAb and analyzed by flow cytometry. The LGR5 MFI in each cell subset was quantified. Column: Mean; Bar: SD.