

Supplementary Figure Legends

Figure 1D SphK2: SphK2 protein levels in stably transfected sequential HCT116, HCT116^{shSphK2}, and HCT116^{SphK2} cells were determined by Western blotting, and two replicates of the results are shown for each cell.

Figure 1D SphK2-β-actin: β-actin protein levels in stably transfected sequential HCT116, HCT116^{shSphK2}, and HCT116^{SphK2} cells were determined by Western blotting, and two replicates of the results are shown for each cell.

Figure 2 E Sphk2-WT: SphK2 expression of extracted proteins from colon tumors in WT and SphK2 Tg mice in order from the fourth column, three mice were taken from each group.

Figure 2 E β-actin: β-actin protein levels of extracted proteins from colon tumors in WT and SphK2 Tg mice in order from the fourth column, three mice were taken from each group.

Figure 5 K Arg1: Arg1 expression of extracted proteins from colon tumors, the first four columns are SphK2 Tg mice, and the grouping order of administration is ABC294640, ABC294640+5-FU, saline, and 5-FU. Columns 7-8 are WT mice, and the grouping order of administration is saline, and 5-FU.

Figure 5 K iNOS: iNOS expression of extracted proteins from colon tumors, the first four columns are SphK2 Tg mice, and the grouping order of administration is ABC294640, ABC294640+5-FU, saline, and 5-FU. Columns 7-8 are WT mice, and the grouping order of administration is saline, and 5-FU.

Figure 5 K STAT3 & P-STAT3: The upper panel shows p-STAT3 in colon tumor extracted protein, and the lower panel shows the protein expression of STAT3. The first

four columns are SphK2 Tg mice, and the grouping order of administration is ABC294640, ABC294640+5-FU, saline, and 5-FU. Columns 7-8 are WT mice, and the grouping order of administration is saline, and 5-FU.

Figure 5 K β -actin: β -actin protein levels of extracted proteins from colon tumors, , the first four columns are SphK2 Tg mice, and the grouping order of administration is ABC294640, ABC294640+5-FU, saline, and 5-FU. Columns 7-8 are WT mice, and the grouping order of administration is saline, and 5-FU.