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Supplemental information

**STK39 enhances the progression
of Cholangiocarcinoma via PI3K/AKT pathway**

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Supplementary information

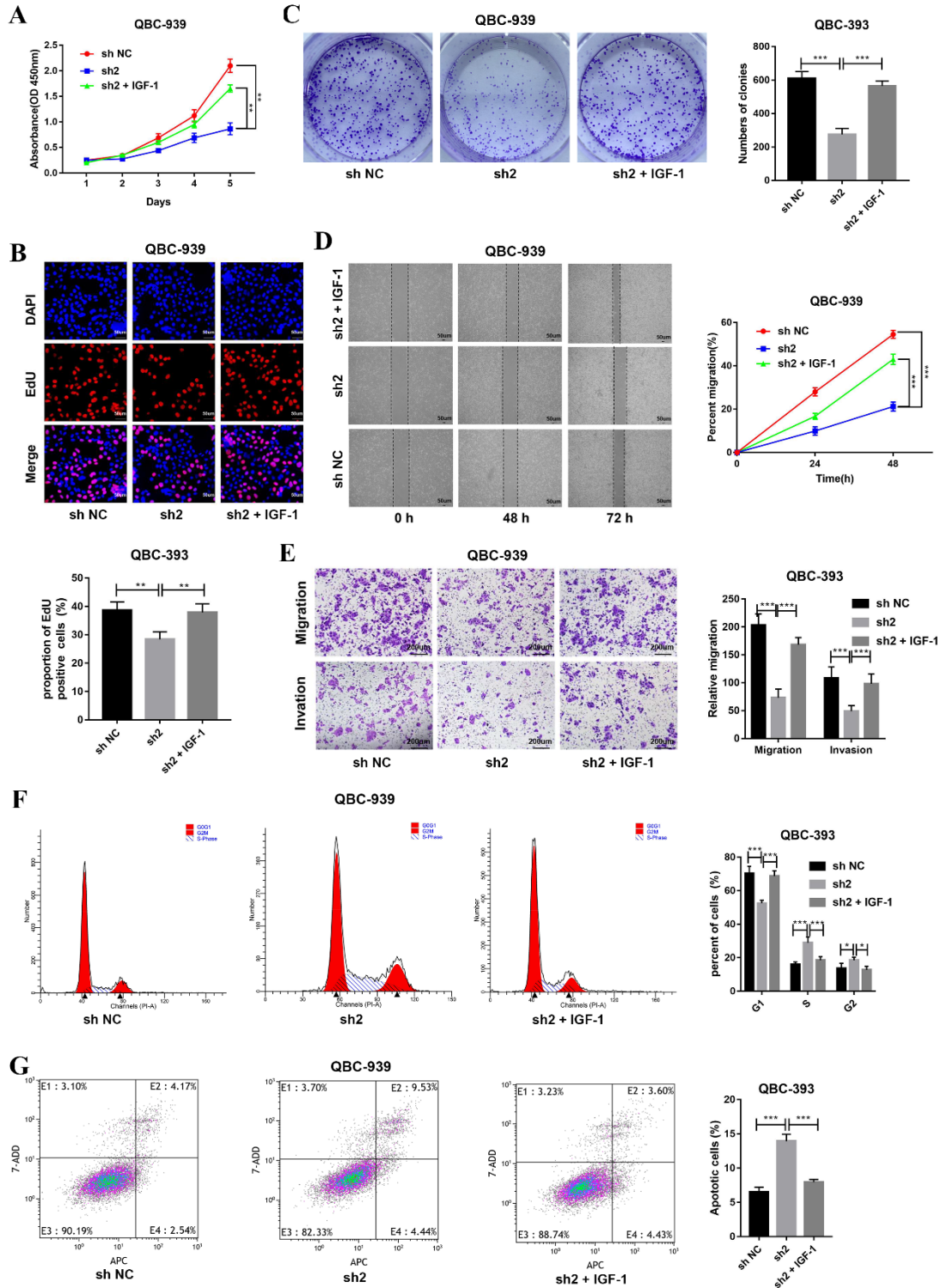


Figure S1. The positive effect of STK39 on tumor progression was rescued by the application of IGF-1. Related to Figure 6.

QBC-939 cells were transfected with STK39 shRNA (sh2) or control shRNA (sh NC), and STK39-sh2 cells were treated with or without indicated concentrations of IGF-1; The (A) CCK 8 assay (measured at 0, 24, 48, 72, and 96 h), (B) EdU, (C) colony formation, (D) wound healing assay, (E) transwell assay, (F) Cell cycle, and (G) apoptotic analysis were performed in the three groups. Scale bar: (B, D) are 50 μ m and (E) is 200 μ m. Data were shown as mean \pm SEM.

Table S1: shRNA used in this study (Related to STAR METHODS)

Genes	Sequence (5'-3')
shSTK39-1	GTCAGATTCACAGGGATTT
shSTK39-2	AGGCAATAATAGCAACAAT
shSTK39-3	ACGGCAAGTCCTTTAGAAA
sh NC	TTCTCCGAACGTGTCACGT

Table S2: Primer sequences used in this study (Related to STAR METHODS)

Genes		Sequence (5'-3')
STK39	Forward	TGCCAGACCAGTATGGATGAA
	Reverse	GGTGTAAATAGGTCACACTACGTTGG
β -actin	Forward	ATTGCCGACAGGATGCAGAA
	Reverse	GCTGATCCACATCTGCTGGAA
miR-26a-5p	Forward	ATGGTTCGTGGGTTCAAGTAATCGATGGC
	Reverse	GCAGGGTCCGAGTATTCG