**Supplementary Figure S1**



**Supplementary Figure S1: The detailed expression levels of ARPC1A in NSCLC surgery samples**

The expression level of ARPC1A in collected NSCLC surgery samples (n=5) were determined by q-PCR. \* indicates *p*<0.05, The red color represents “NSCLC tumor tissue”, blue color represents “adjacent normal tissue”.

**Supplementary Figure S2**

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**Supplementary Figure S2: Overexpression of ARPC1A enhances the proliferative capability of NSCLC cells**

1. The ARPC1A levels were detected by Western Blotting in ARPC1A overexpressing HCC827 cells. Quantification of 3 experiments, mean ± SEM. For HCC827 cell lines, *p* (Ctrl, ARPC1A) =0.0325.
2. The ARPC1A levels were detected by Western Blotting in ARPC1A overexpressing H1975 cells. Quantification of 3 experiments, mean ± SEM. For H1975 cell lines, *p* (Ctrl, ARPC1A) =0.0298.
3. The cell proliferation was assessed using the CCK-8 assay in ARPC1A overexpressing HCC827 cells. Quantification of 3 experiments, mean ± SEM. For HCC827 cell lines, *p* (Ctrl, ARPC1A) =4.109E-05.
4. The cell proliferation was assessed using the CCK-8 assay in ARPC1A overexpressing H1975 cells. Quantification of 3 experiments, mean ± SEM. For H1975 cell lines, *p* (Ctrl, ARPC1A) =4.936E-05.

**Supplementary Figure S3**



**Supplementary Figure S3: Overexpression of ARPC1A enhances the migratory ability of NSCLC cells**

(A) In HCC827 cell lines with ARPC1A overexpression, the migratory ability of the cells was assessed by wound healing assay. Left panel: Representative images. Scale bar = 500 µm. Right panel: Quantification of 3 experiments. Mean ± SEM. For HCC827 cell lines, *p* (Ctrl, ARPC1A) =0.0052.

(B) In H1975 cell lines with ARPC1A overexpression, the migratory ability of the cells was assessed by wound healing assay. Left panel: Representative images. Scale bar = 500 µm. Right panel: Quantification of 3 experiments. Mean ± SEM. For H1975 cell lines, *p* (Ctrl, ARPC1A) =0.0007.