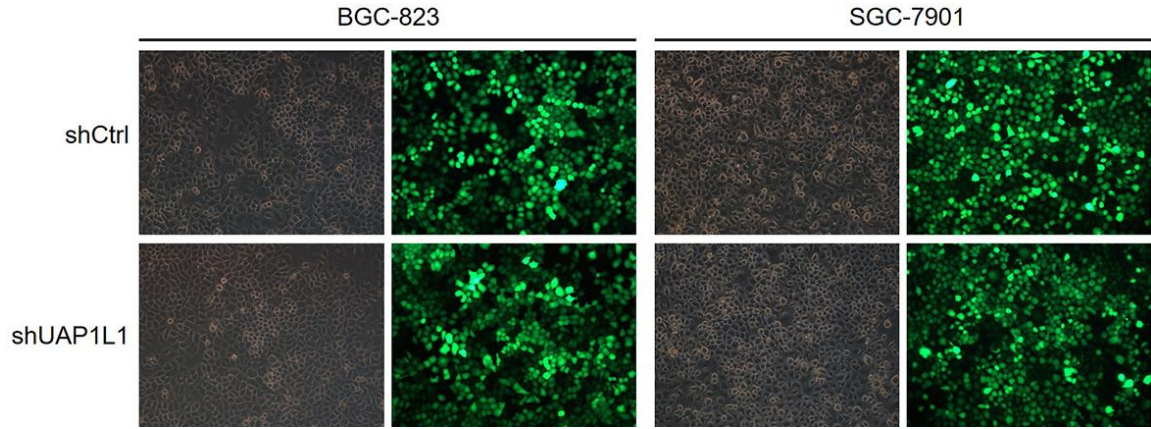
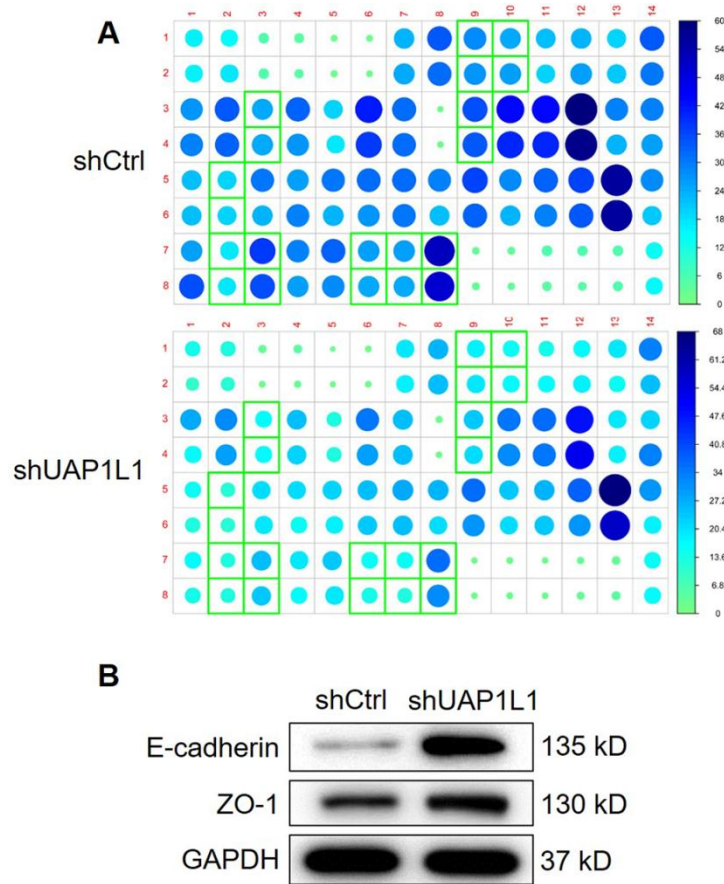


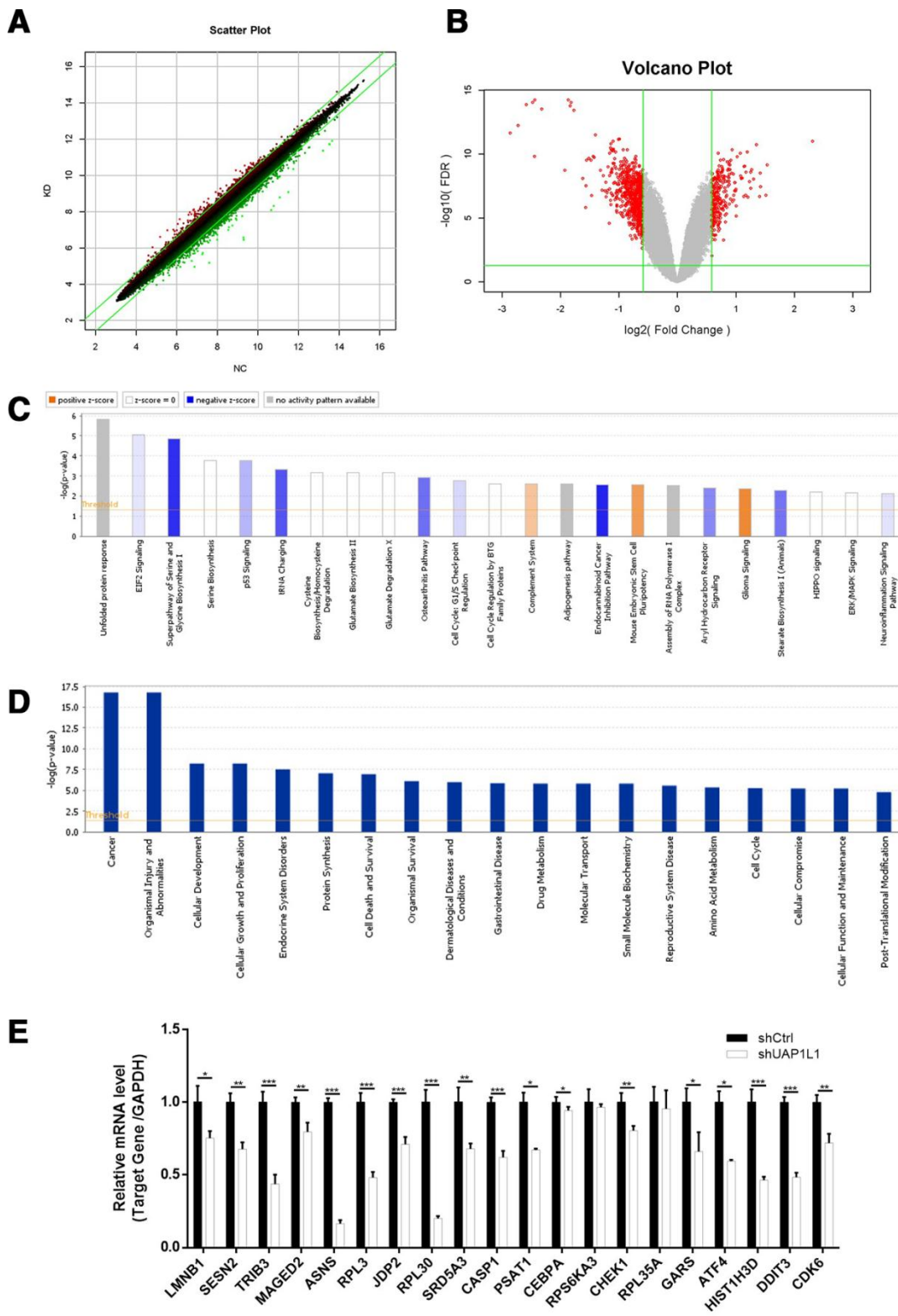
SUPPLEMENTARY FIGURES



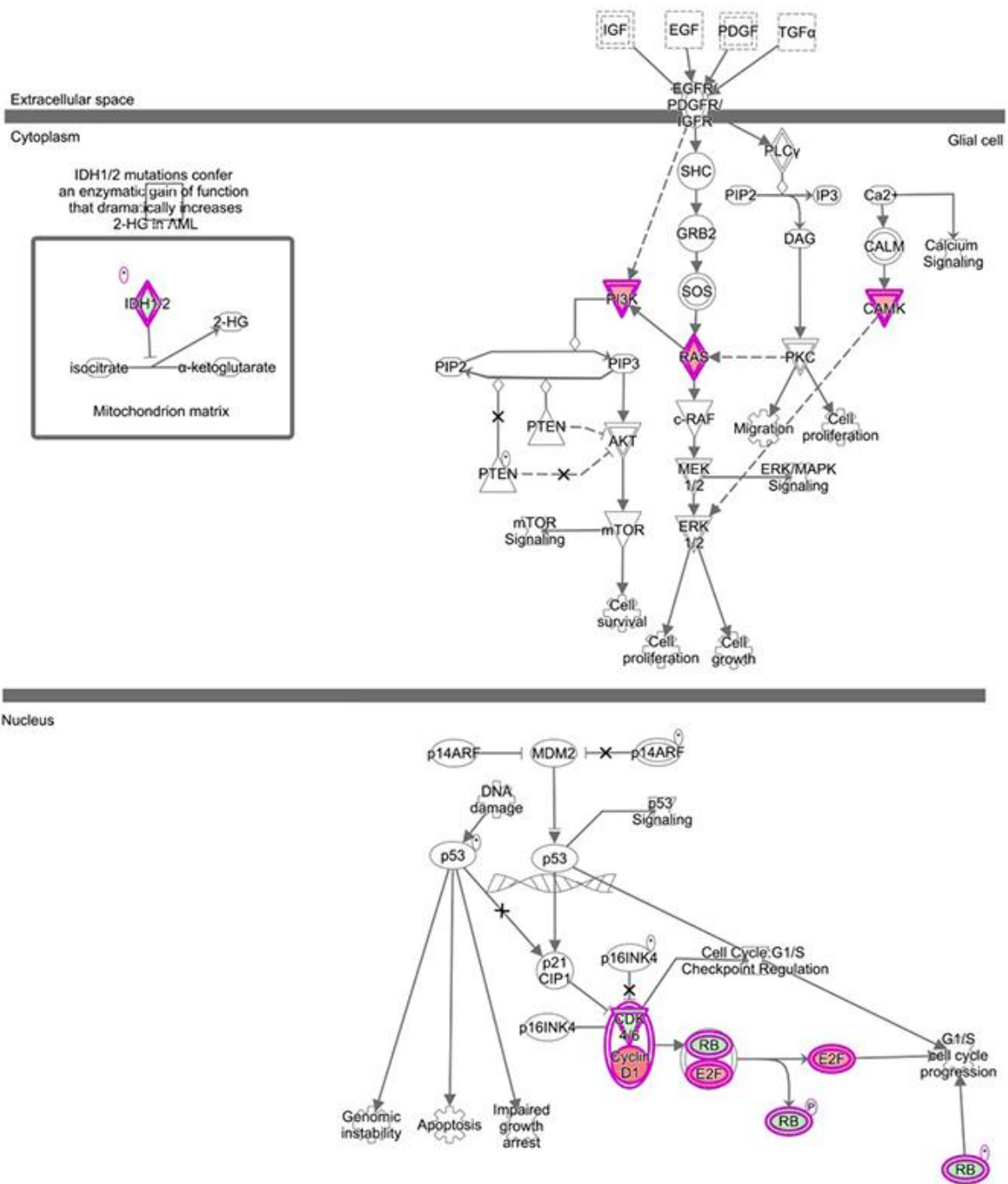
Supplementary Figure 1. The transfection efficiencies of shUAP1L1 and shCtrl in BGC-823 and SGC-7901 cells were evaluated through observing the fluorescence of GFP on lentivirus vector.



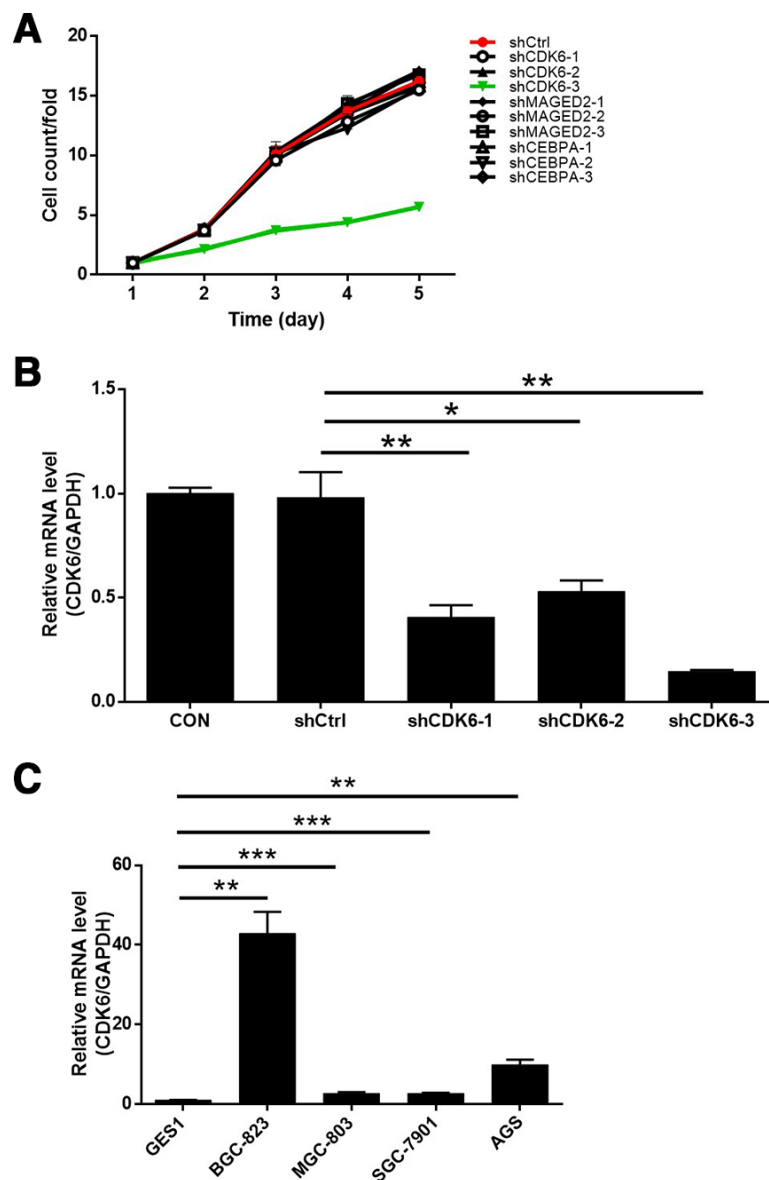
Supplementary Figure 2. (A) Human Apoptosis Antibody Array was performed to detect and compare the expression of apoptosis-related proteins in SGC-7901 cells with or without UAP1L1 knockdown. (B) The expression of E-cadherin and ZO-1 in BGC-823 cells with or without UAP1L1 knockdown was detected by western blotting.



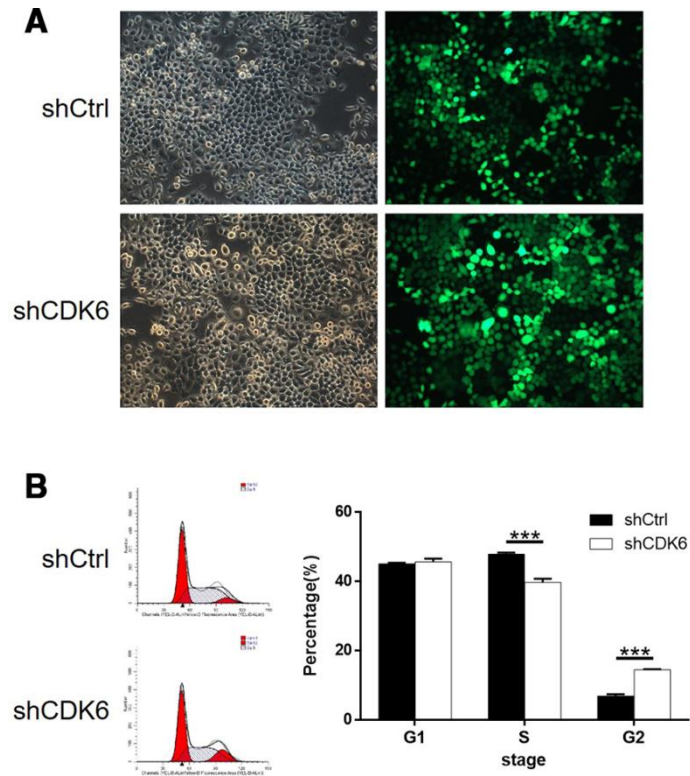
Supplementary Figure 3. (A) The scatter plot of gene expression profiling in SGC-7901 cells with or without UAP11L1 knockdown. Red dots represented significantly upregulated DEGs. Green dots represented significantly downregulated DEGs. (B) The volcano plot of gene expression profiling in SGC-7901 cells with or without UAP11L1 knockdown. Red dots represented the DEGs. (C) The enrichment of the DEGs in canonical signaling pathways was analyzed by IPA. (D) The enrichment of the DEGs in IPA disease and function was analyzed by IPA. (E) The mRNA expression of 20 selected DEGs was detected by qPCR in BGC-823 cells with or without UAP11L1 knockdown. Data was shown as mean \pm SD. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.



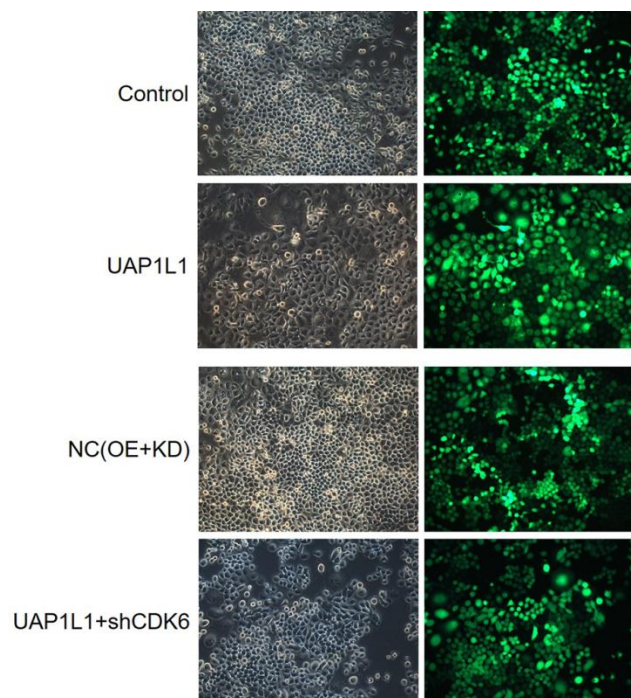
Supplementary Figure 4. The schematic diagram of Glioma signaling.



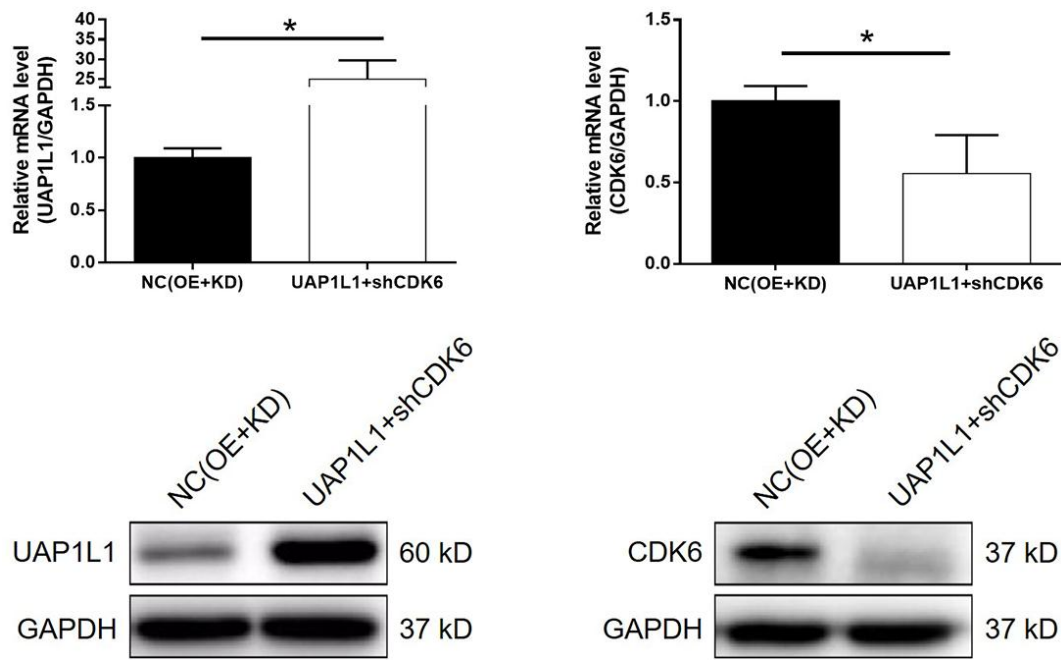
Supplementary Figure 5. (A) Celigo cell counting assay was performed to evaluate the inhibitory ability of lentivirus expressing different shRNAs targeting CDK6, MAGED and CEBPA on SGC-7901 cell proliferation. (B) The knockdown efficiencies of 3 shRNAs targeting CDK6 were assessed by qPCR. (C) The mRNA expression of UAP1L1 in GES-1, BGC-823, SGC-7901, AGS and MGC-803 cell lines was detected by qPCR. Data was shown as mean \pm SD. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$.



Supplementary Figure 6. (A) The transfection efficiencies of shCtrl and shCDK6 were evaluated through observing the fluorescence of GFP on lentivirus vector. (B) The effects of CDK6 knockdown on cell cycle distribution of SGC-7901 were detected by flow cytometry. Data was shown as mean \pm SD. *** $P < 0.001$.



Supplementary Figure 7. The transfection efficiencies of Control plasmid, UAP1L1 overexpression plasmid, NC(OE+KD) and UAP1L1+shCDK6 in SGC-7901 cells were evaluated through observing the fluorescence of GFP on lentivirus vector.



Supplementary Figure 8. The mRNA and protein levels of UAP1L1 and CDK6 in SGC-7901 cells transfected with NC(OE+KD) or UAP1L1+shCDK6 were detected by qPCR and western blotting, respectively. Data was shown as mean \pm SD. * $P < 0.05$.