



Figure S1. Efficiency of shRNA/siRNA/plasmid in this study. (A) Red fluorescence and bright field images of SiHa cell treated with ITGA3 lentivirus and corresponding control lentivirus, showing lentivirus transfection rate. Original magnification: ×100; (**B**) Western blotting images showed the integrin α 3 level change after treated with lenti-ITGA3 lentivirus. (**C**) Quantification of protein intensity in (C); (**D**) Western blotting images showed the integrin α 3 level change after treated with integrin α 3 plasmid. (**E**) Quantification of protein intensity in (D); (**F**) Western blotting images showed the FAK level change after treated with FAK siRNA. (**G**) Quantification of protein intensity in (F); (**H**) Integrin α 3 and c-Src expression were showed by western blotting among groups Sh-Ctrl, Sh-Inte α 3, Sh-Inte α 3+Empty vector and Sh-Inte α 3+c-Src plasmid, responding quantification of integrin α 3 and c-Src protein intensity were presented in (**I**) and (**J**); (**K**) Integrin α 3 and ERK expression were showed by western blotting among groups Sh-Ctrl, Sh-Inte α 3, Sh-Inte α 3+Empty vector and Sh-Inte α 3 and ERK protein intensity were presented in (**L**) and (**M**); (**N**) Integrin α 3, FAK, β -actin expression were showed by western blotting among groups Sh-Ctrl, Sh-Inte α 3, Sh-Inte α 3+Empty vector and Sh-Inte α 3+FAK plasmid, responding quantification of integrin α 3 and FAK protein intensity were presented in (**O**) and (**P**);

^{* =} P<0.05 vs. corresponding control; ** = P<0.01; ***= P<0.001; #= P<0.05 vs. corresponding group (e.g. Sh-Inte α +empty vector vs Sh-Inte α 3+FAK plasmid), ##= P<0.01, ###= P<0.01; All the experiments were repeated three times with consistent results, and the representative images are shown.