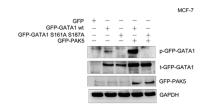
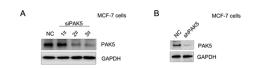
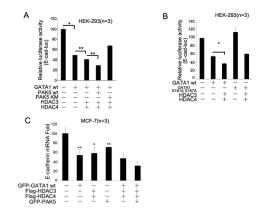
SUPPLEMENTARY FIGURES



Supplementary Figure S1: PAK5 phosphorylates GATA1 *in vivo*. MCF-7 cells transfected with GATA1 wt/S161A S187A and PAK5 wt were used for western blot with phosphor-GATA1 Ser161 antibody.



Supplementary Figure S2: MCF-7 cells were stably tranduced with lentiviral shPAK5. (A) MCF-7 cells were transfected with three different siPAK5 or the non-targeting control siRNA (NC) for western blot. (B) MCF-7 cells were stably tranduced with lentiviral shPAK5 or the non-targeting control shRNA (NC) for western blot.



Supplementary Figure S3: PAK5-HDAC3/4-GATA1 have a coordination role in E-cadherin down-regulation. (A) PAK5wt/KM and GATA1, HDAC3/4 were transfected into HEK-293 cells as indicated for Luciferase Assays. *p < 0.05, **p < 0.01. (B) GATA1 wt and GATA1 S161A S187A, HDAC3/4 were transfected into HEK-293 cells as indicated for Luciferase Assays. *p < 0.05. (C) MCF-7 cells were transfected with GATA1, PAK5, HDAC3/4 or all the plasmids, then qRT-PCR was used. Results are representative of three independent experiments. *p < 0.05, **p < 0.01.