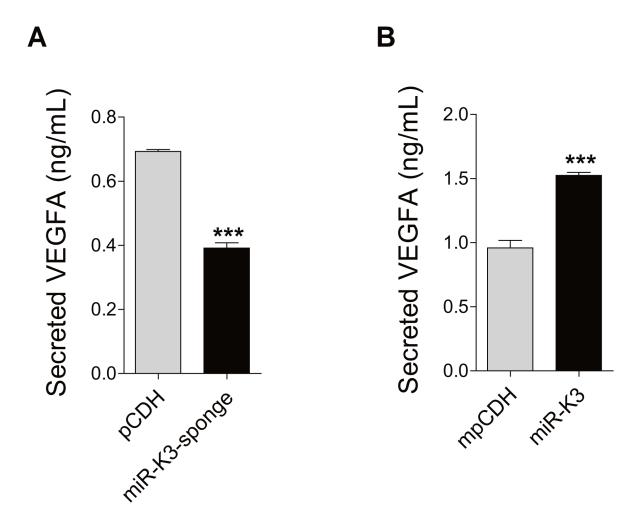
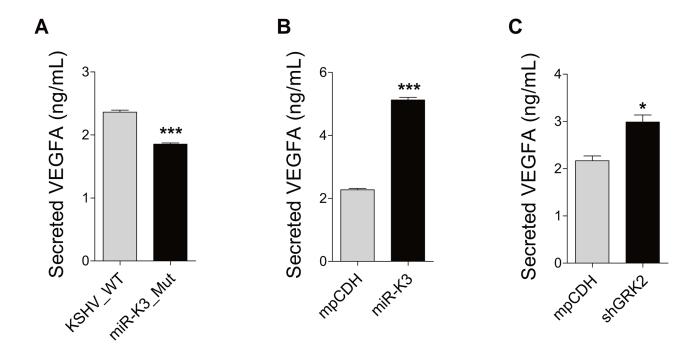
A KSHV microRNA enhances viral latency and induces angiogenesis by targeting GRK2 to activate the CXCR2/AKT pathway

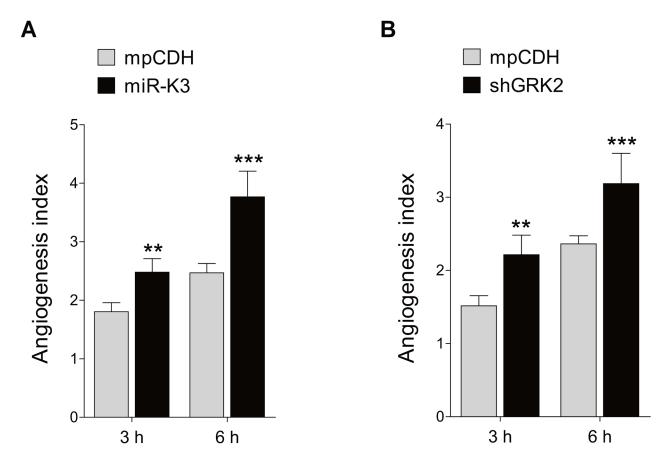
SUPPLEMENTARY FIGURES



Supplementary Figure S1: KSHV-encoded miR-K3 induces VEGFA secretion by BC3 cells in vitro. A. Enzyme-linked immunosorbent assay (ELISA) measurement of secreted VEGFA in the supernatants from BC3 cells transduced with miR-K3 sponge (miR-K3 sponge) or the control (pCDH) for 48 h, respectively. ***P < 0.001 for Student's *t*-test. B. Enzyme-linked immunosorbent assay (ELISA) measurement of secreted VEGFA in the supernatants from BC3 cells transduced with lentivirus-miR-K3 (miR-K3) or the control lentivirus (mpCDH) for 48 h, respectively. ***P < 0.001 for Student's t-test.



Supplementary Figure S2: Deletion of miR-K3 from KSHV genome reduces VEGFA secretion by HUVEC in vitro. A. Enzyme-linked immunosorbent assay (ELISA) measurement of secreted VEGFA in the supernatants from HUVECs infected with BAC16 KSHV wild type virus (KSHV_WT) or BAC16 miR-K3 deletion mutant virus (miR-K3_Mut). ***P < 0.001 for Student's t-test. B. Enzyme-linked immunosorbent assay (ELISA) measurement of secreted VEGFA in the supernatants from HUVECs transduced with lentivirus-miR-K3 (miR-K3) or its respective control (mpCDH) after infection with BAC16 KSHV miR-K3 deletion mutant virus. ***P < 0.001 for Student's t-test. C. Enzyme-linked immunosorbent assay (ELISA) measurement of secreted VEGFA in the supernatants from HUVECs transduced with lentivirus-mediated shGRK2 (shGRK2) or its respective control (mpCDH) after infection with BAC16 KSHV miR-K3 deletion mutant virus. *P < 0.05 for Student's t-test.



Supplementary Figure S3: MiR-K3/GRK2 pathway is necessary for KSHV-induced angiogenesis. A. Microtubule formation assay for HUVECs transduced with lentivirus-miR-K3 (miR-K3) or its respective control (mpCDH) after infection with BAC16 KSHV miR-K3 deletion mutant virus. **P < 0.01, and ***P < 0.001 for Student's t-test. **B.** Microtubule formation assay for HUVECs transduced with lentivirus-mediated shGRK2 (shGRK2) or its respective control (mpCDH) after infection with BAC16 KSHV miR-K3 deletion mutant virus. **P < 0.01, and ***P < 0.001 for Student's t-test.