Supplemental Material

Genistein Represses HOTAIR/Chromatin Remodeling Pathways to Suppress Kidney Cancer

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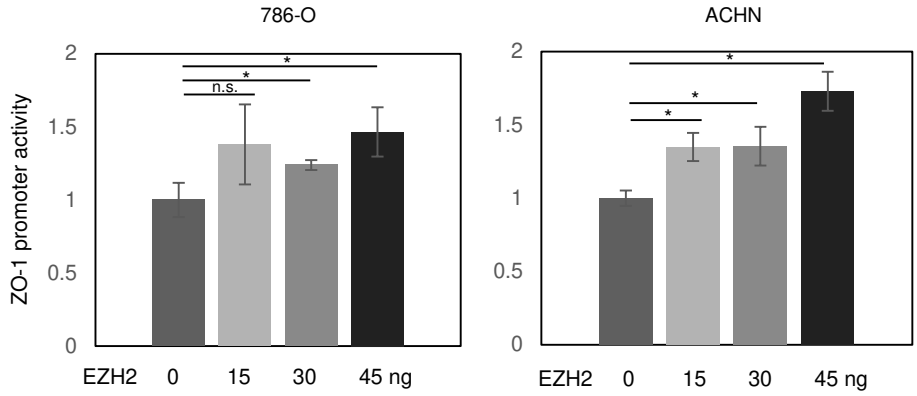
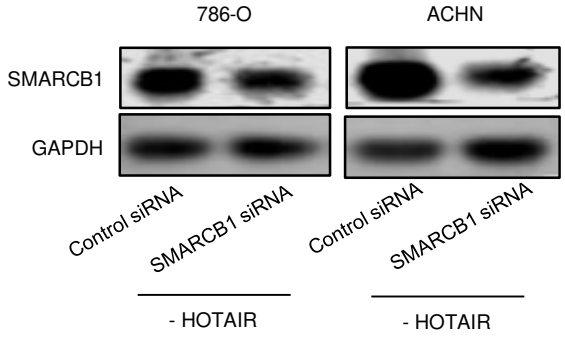
Supplementary Material

Supplementary Figure 1



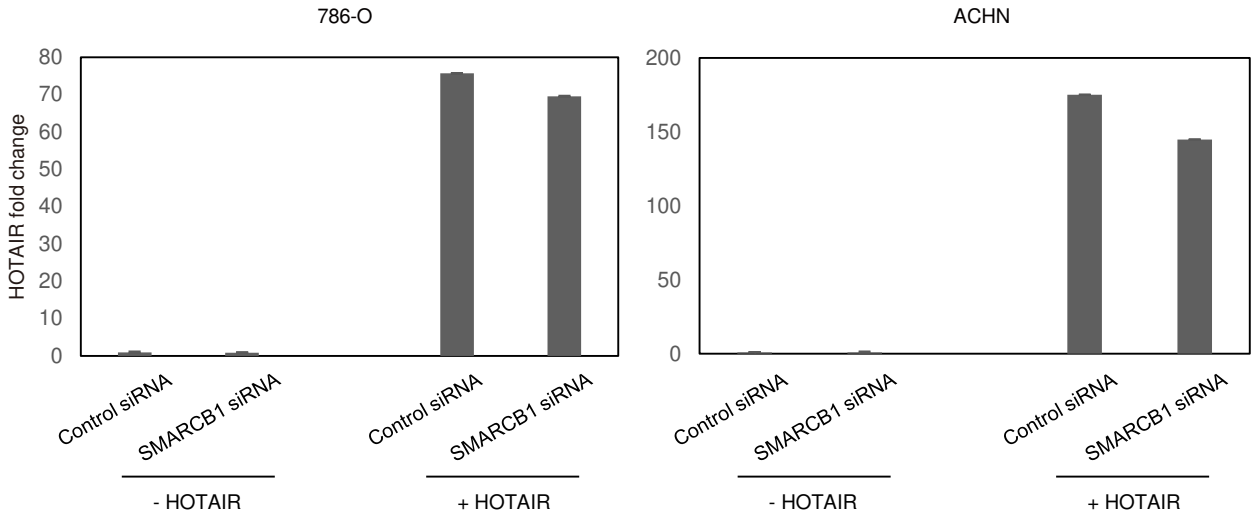
Supplementary Figure 1. ZO-1 promoter activity by luciferase reporter assay. 786-O and ACHN cells in 96-well plates were co-transfected with a Renilla luciferase plasmid containing the promoter region of ZO-1 (15 ng) and EZH expression vector (Addgene), control vector (pcDNA3.1(+)) (Invitrogen) for 24 hours. Promoter activity was measured using LightSwitch Luciferase Assay Kit (Active Motif) according to the manufacturer's instructions. *$p < 0.05$, 'n.s.' $p>0.05$.

Supplementary Figure 2



Supplementary Figure 2. SMARCB1 Knockdown. 786-O and ACHN cells in 12-well plates were treated with 25 uM genistein. After 24 hours, the cells were transfected with 25 pmol control siRNA or SMARCB1 siRNA and incubated for 72 hours in the presence of genistein. After 48 hours, the cells were transfected with 2.5 ng of control vector (pcDNA3.1(+)) for 48 hours in the presence of genistein. SMARCB1 expression was analyzed by Western blot.

Supplementary Figure 3



Supplementary Figure 3. HOTAIR overexpression. 786-O and ACHN cells in 12-well plates were treated with 25 uM genistein. After 24 hours, the cells were transfected with 25 pmol control siRNA or SMARCB1 siRNA for 72 hours in the presence of genistein. After 48 hours, the cells were transfected with 2.5 ng of control vector (pcDNA3.1(+)) or HOTAIR expression vector for 48 hours in the presence of genistein. HOTAIR expression was analyzed by quantitative RT-PCR.