

Figure S1. Efficiency of activin A knockdown in HUVECs and OSCC cells. Reverse transcription-quantitative polymerase chain reaction and ELISA were performed to verify the efficiency of activin A knockdown in (A) HUVECs and (B) OSCC cells transduced with lentivirus expressing shRNA sequences against INHBA (shINHBA cells) and control (shControl cells). Data are presented as the mean  $\pm$  standard deviation of three independent experiments. \* $P$ <0.05, \*\* $P$ <0.01 vs. shControl cells. HUVEC, human umbilical vein endothelial cell; OSCC, oral squamous cell carcinoma; shRNA, short hairpin RNA.

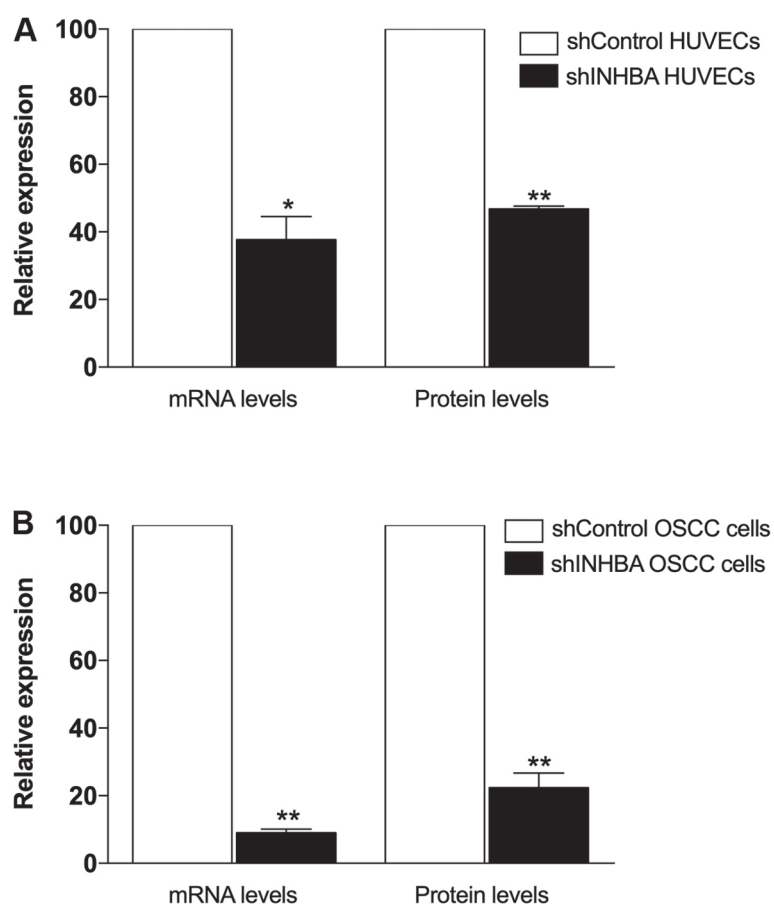


Table SI. Primer sequences used for reverse transcription-quantitative PCR.

| Gene        | Forward (5'-3')         | Reverse (5'-3')         |
|-------------|-------------------------|-------------------------|
| INHBA       | CCCCTTTGCCAACCTCAAA     | CATGGACATGGGTCTCAGCTT   |
| VEGFA total | CGAGGGCCTGGAGTGTGT      | CGCATAATCTGCATGGTGATG   |
| VEGFA121    | ATGCAGATTATGCGGATCAAACC | CGGCTTGTCACATTTTTCTTGTC |
| VEGFA165    | CCAATGCAGATTATGCGGATC   | CAAGGCCCACAGGGATTTTC    |
| VEGFA189    | CGAGGAAAGGGAAAGGGGC     | CCCACAGGGAACGCTCCAG     |
| PPIA        | GCTTTGGGTCCAGGAATGG     | GTTGTCCACAGTCAGCAATGGT  |

VEGFA, vascular endothelial growth factor A.

Table SII. Activin A effects the expression of angiogenesis-related genes.

| A, Activin A-treated HUVECs |             |
|-----------------------------|-------------|
| Angiogenesis-related gene   | Fold-change |
| HSPG2                       | 121.547     |
| FGF2                        | 35.401      |
| CD44                        | 35.185      |
| AMOT                        | 33.639      |
| PDGFB                       | 31.871      |
| VEGFA                       | 29.599      |
| SERPINF1                    | 26.977      |
| TGFA                        | 19.683      |
| ITGAV                       | 14.336      |
| COL4A2                      | 11.717      |
| BAI1                        | 9.945       |
| FGF1                        | 7.667       |
| PROX1                       | 6.448       |
| IL8                         | 3.249       |
| FN1                         | -64.102     |
| CXCL2                       | -17.123     |
| TNFSF15                     | -8.7183     |
| THBS1                       | -5.305      |
| FGA                         | -4.8590     |
| NRP1                        | -3.632      |
| FOXC2                       | -2.125      |

B, shINHBA-treated HUVECs

| Angiogenesis-related gene | Fold-change |
|---------------------------|-------------|
| COL4A3                    | 434.782     |
| FGA                       | 344.827     |
| CXCL2                     | 263.157     |
| FN1                       | 188.679     |
| TNFSF15                   | 63.694      |
| FOXC2                     | 31.152      |
| NRP1                      | 16.835      |
| FGF1                      | 16.694      |
| CTGF                      | 14.619      |
| FIGF                      | 14.184      |
| TNF                       | 11.778      |
| TGFB1                     | 9.1074      |
| IL12A                     | 6.605       |
| PTN                       | 3.037       |
| COL4A1                    | 2.395       |
| S1PR1                     | 2.267       |
| PROK1                     | 2.178       |
| HSPG2                     | -20.259     |
| FGF                       | -9.073      |
| EPHB2                     | -5.951      |
| AMOT                      | -4.997      |
| TGFA                      | -4.534      |
| VASH1                     | -4.136      |
| FST                       | -4.048      |
| ADAMTS1                   | -3.743      |
| CD44                      | -3.686      |

Table SII. Continued.

B, shINHBA-treated HUVECs

| Angiogenesis-related gene | Fold-change |
|---------------------------|-------------|
| PDGFB                     | -3.612      |
| VEGFA                     | -3.015      |
| COL4A2                    | -2.499      |
| COL18A1                   | -2.497      |
| ITGAV                     | -2.260      |
| GRN                       | -2.186      |

HUVEC, human umbilical vein endothelial cell.