Figure S1

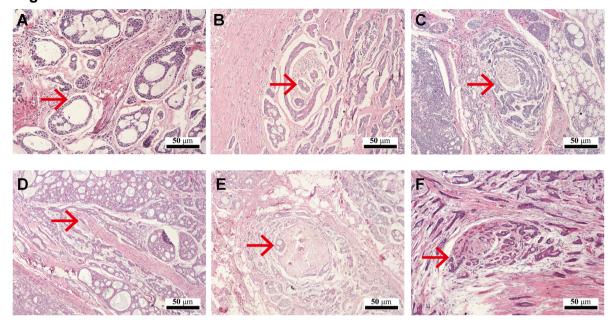


Figure S2

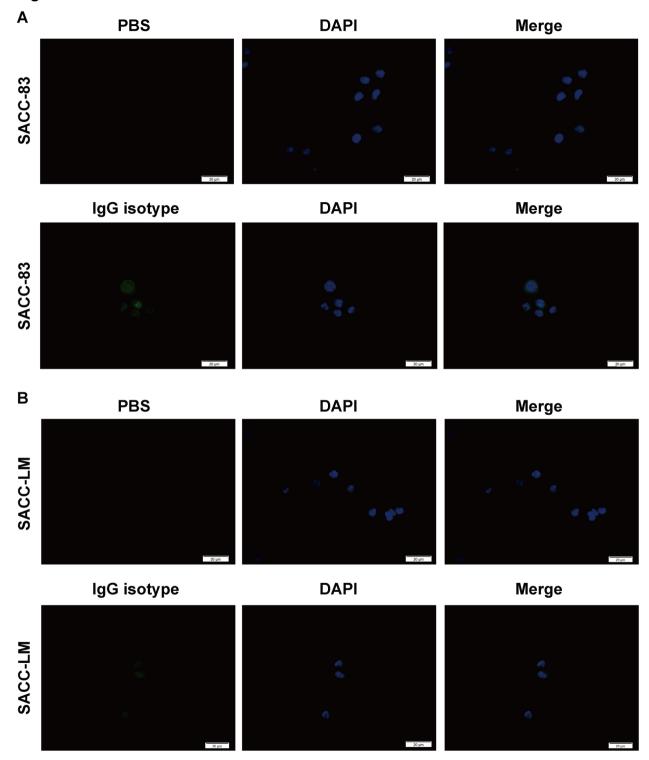
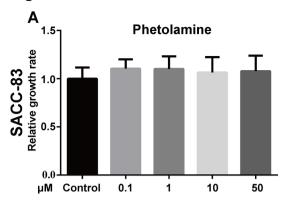
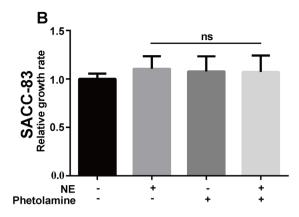
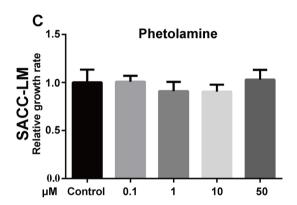


Figure S3







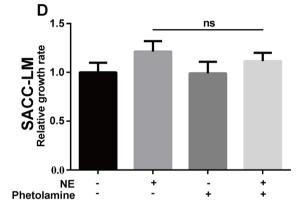
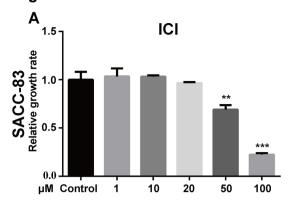
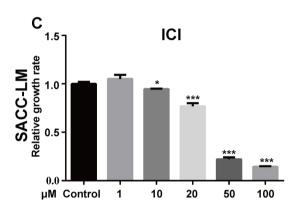
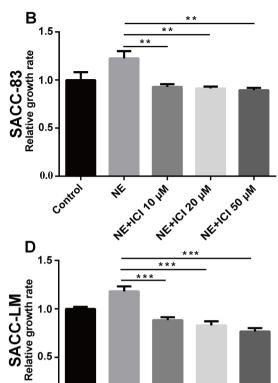


Figure S4







ME HC 10 IM ME HC 120 IM

0.0

Control

Figure S5

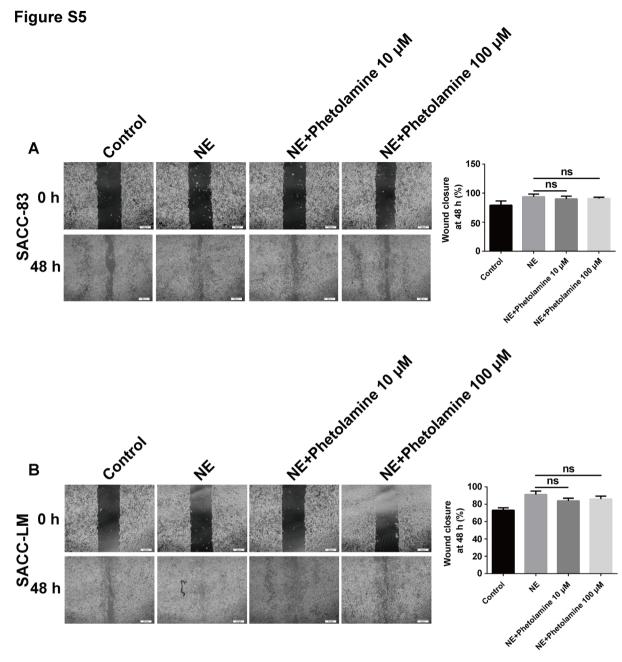
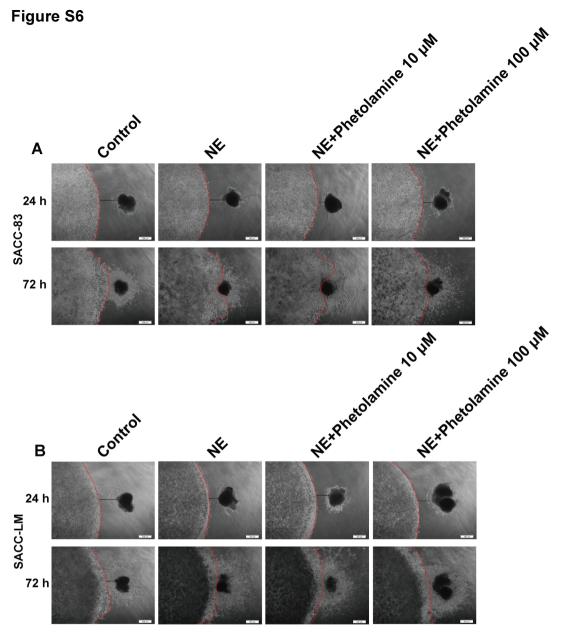


Figure S6



Supplementary Figure Legends

Figure S1 SACC tissues stained with hematoxylin and eosin to confirm PNI.

Notes: (A-F) Nerve fibers were invaded by tumor cells in SACC tissues with PNI (invaded tumor cells are indicated with red arrowheads). Original magnification, 400×; scale bar=50 μm.

Abbreviations: PNI, perineural invasion; SACC, salivary adenoid cystic carcinoma.

Figure S2 Negative controls for immunofluorescence assay in SACC-83 and SACC-LM cells.

Notes: (A and B) PBS and rabbit IgG isotype control were used as negative controls for immunofluorescence assay in SACC-83 and SACC-LM cells, respectively. Original magnification, 400x; scale bar=20 μ m.

Abbreviations: SACC, salivary adenoid cystic carcinoma.

Figure S3 The effect of phentolamine on proliferation of SACC-83 and SACC-LM cells.

Notes: (**A** and **C**) MTT assay showed that incubating SACC-83 and SACC-LM cells with different concentrations of phentolamine (0.1-50 μM) for 48 hours did not inhibit the proliferation of SACC cells. (**B** and **D**) 50 μM phentolamine failed to abrogate the NE-dependent increase in SACC-83 and SACC-LM cell proliferation. ns, no significance. The error bars indicate the SD. **Abbreviations:** SACC, salivary adenoid cystic carcinoma.

Figure S4 Treatement with 10-50 μ M ICI118,551 significantly inhibited the NE-induced proliferation of SACC-83 and SACC-LM cells.

Notes: (A and C) MTT assay showed that incubating SACC-83 and SACC-LM cells with

different concentrations of ICI118,551 (1-100 μ M) for 48 hours inhibited the proliferation of SACC-83 and SACC-LM cell in a concentration-dependent manner. (**B** and **D**) Treatement with 10-50 μ M ICI118,551 significantly inhibited the 10 μ M NE-induced proliferation of SACC-83 and SACC-LM cells. The error bars indicate the SD.

Abbreviations: MTT, methyl thiazolyl tetrazolium; NE, norepinephrine; SACC, salivary adenoid cystic carcinoma.

Figure S5 10-100 μM phentolamine failed to abrogate the NE-dependent increase in SACC-83 and SACC-LM cell migration.

Notes: (A and B) Wound-healing assay comparing the migration abilities of SACC-83 and SACC-LM cells treated with 10 μ M NE and 10-100 μ M phentolamine. The wound-closure percentage was quantified at 48 hours after scratching relative to that at 0 hour. Original magnification, 40×; scale bar=200 μ m. ns, no significance. The error bars indicate the SD.

Figure S6 10-100 μ M phentolamine failed to abrogate the NE-induced PNI in SACC-83 and SACC-LM cell.

Abbreviations: SACC, salivary adenoid cystic carcinoma.

Notes: (A and B) DRG coculture models comparing the PNI abilities of SACC-83 and SACC-LM cell treated with NE and 10-100 μ M phentolamine. The red lines indicate the edge of SACC colonies and the black lines indicate the total distance between the DRGs and the cancer colonies. Original magnification, 40×; scale bar=200 μ m.

Abbreviations: DRG, dorsal root ganglia; NE, norepinephrine; PNI, perineural invasion; SACC,

salivary adenoid cystic carcinoma.