

Title

Efficacy of Combination Therapy with Lenvatinib and Radioactive Iodine in Thyroid Cancer Preclinical Model

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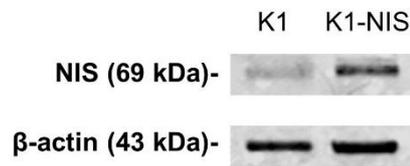
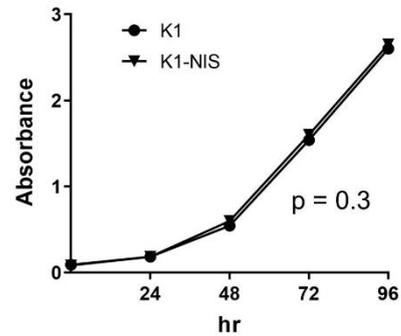
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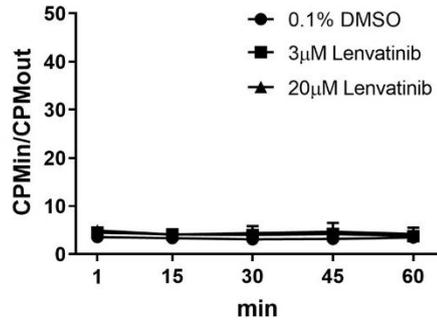
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Supplementary Figure S1. Immunoblot and cell proliferation assay of thyroid cancer cell lines. (A) Sodium iodide symporter (NIS) protein expression in K1 and NIS stably transfected K1 cell lines (K1-NIS). Collected cellular proteins from K1 or K1-NIS cells were electrophoresed and transferred to a PVDF membrane. The membranes were incubated with NIS and β -actin antibodies. (B) Cell proliferation assay of K1 and K1-NIS cells. Cells (2×10^3 cells/well) were seeded and cultured in 96-well culture plates for 0, 24, 48, 72, or 96 h. WST-8 at 10 μ l was added to the wells, the cells were incubated for 4 h at 5% CO_2 and 37°C, and then absorbance was measured at a wavelength of 450 nm ($n = 4$). Data represent means \pm SEM.

FTC-133



Supplementary Figure S2. Intracellular uptake of radioiodine after lenvatinib treatment *in vitro*. The intracellular accumulation ratio (CPMin/CPMout) of ¹²⁵I in FTC-133 cells treated with 0.1% DMSO or 3 and 20 μM lenvatinib for 48 h. Cells at a concentration of $1-2 \times 10^6$ cells/mL were obtained at 1, 15, 30, 45, and 60 min after adding 370 kBq of ¹²⁵I, and the ratio of radioactivity concentration inside the cell to that found in the supernatant was calculated (n = 5). Data represent means ± SEM.