Supplemental Information

miR-124 Inhibits Lung Tumorigenesis Induced

by K-ras Mutation and NNK

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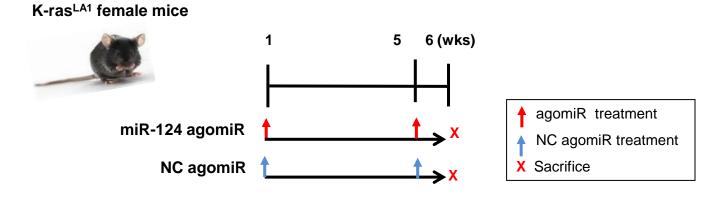


Figure S1.

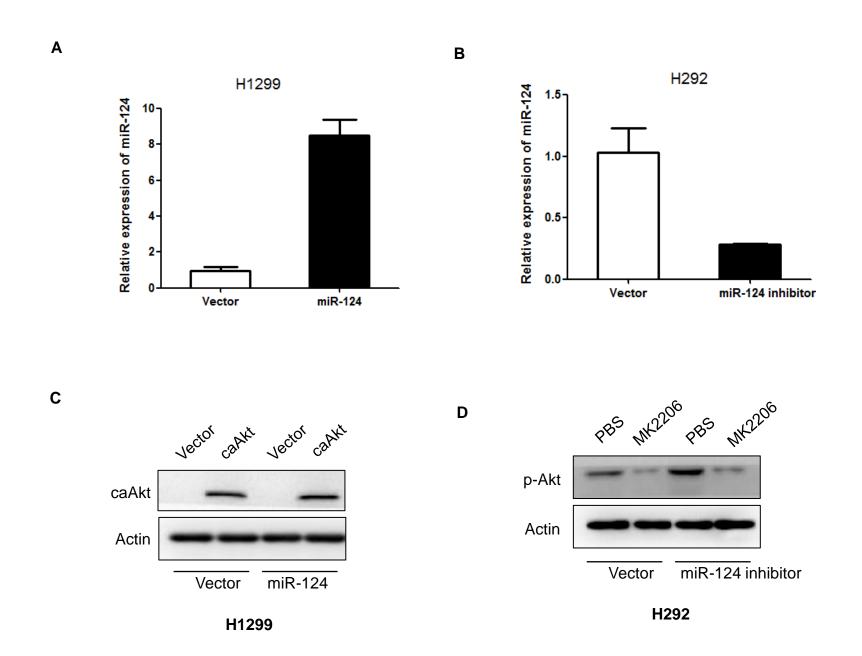
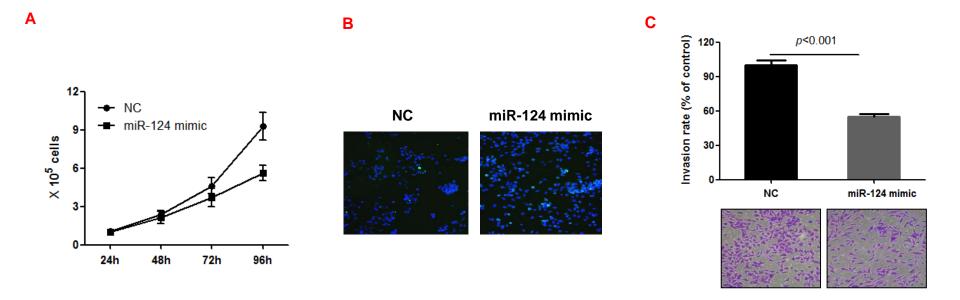


Figure S2.



Supplementary Figure legends

Supplementary Figure S1. Schematic diagram of the animal experiments. (A) Experimental design for NNK-induced lung tumor models. (B) Experimental design for K-ras^{LA1} transgenic mice.

Supplementary Figure S2. (A) miR-124 expression was measured in stable expressing miR-124 H1299 cells and their control cells by RT-qPCR. (B) miR-124 expression was measured in stable expressing miR-124-antisense H292 cells and their control cells by RT-qPCR. (C) Stably expressing miR-124 H1299 cells and their control cells were transfected with indicated plasmid. After 48 hours of transfection, caAKT expression level was measured by Western blot. (D) Stably expressing miR-124-antisense H292 cells and their control cells were treated with or without MK2206 for 24 hours, then, cells were subjected to Western blot analysis.

Supplementary Figure S3. MiR-124 significantly inhibits cell proliferation, invasion and induces apoptosis in NSCLC cells. (A) miR-124 inhibits H1299 cell proliferation. Cells were transfected with negative control oligonucleotides (NC) or miR-124 mimics. After 24 hours of transfection, cells were subjected to cell proliferation assay. (B) miR-124 induces apoptosis in H1299 cells. H1299 cells were transfected with NC or miR-124 mimic. After 48 hours of transfection, cells were subjected to TUNEL assay. (C) miR-124 inhibits H1299 cell invasion. H1299 cells were transfected with NC or miR-124 mimic. After 24 hours of transfection, cells were subjected to invasion assay and the invasion assay was conducted for 24 hours.