

**Supplementary Figure 1. Prevention of NNK-induced lung tumorigenesis by intraperitoneal administration of metformin is not associated with activation of AMPK in lung tissue**

Representative images of IHC analysis for p-AMPK in airway epithelium (AE) and lung tumors from vehicle-treated mice and from mice that received intraperitoneal metformin (left panel), and quantification of IHC analysis (right panel). Graph shows mean staining indices and error bars represent SD. IHC analysis was performed on 5 mice/treatment group.

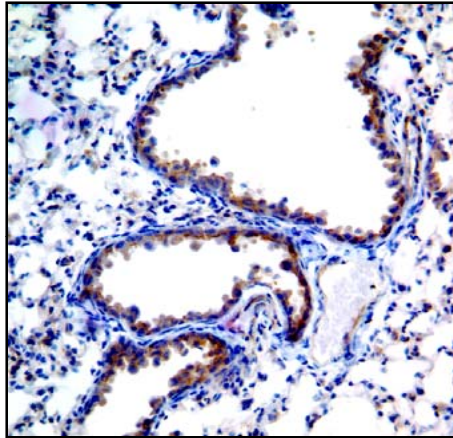
**Supplementary Figure 2. The cereal diet NIH-07 does not cause fatty liver disease in A/J mice exposed to NNK.**

H&E of liver sections from A/J mice fed NIH-07 for 16 weeks following exposure to three weekly injections of 100 mg/kg NNK. Images were taken at 10X (left) and 40X magnification (right).

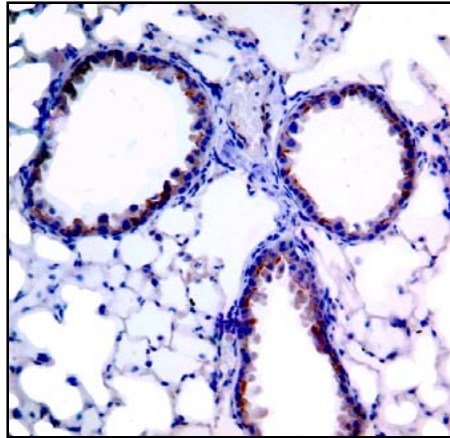
# Supplementary Figure 1

## p-AMPK

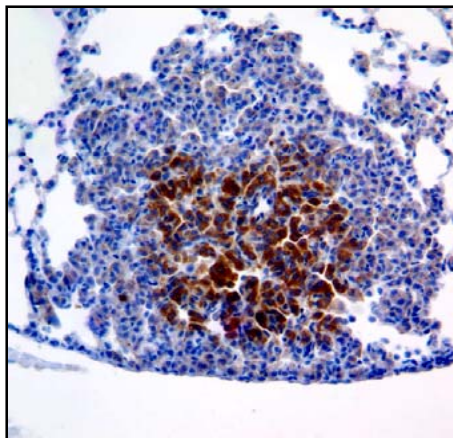
airway epithelium, vehicle



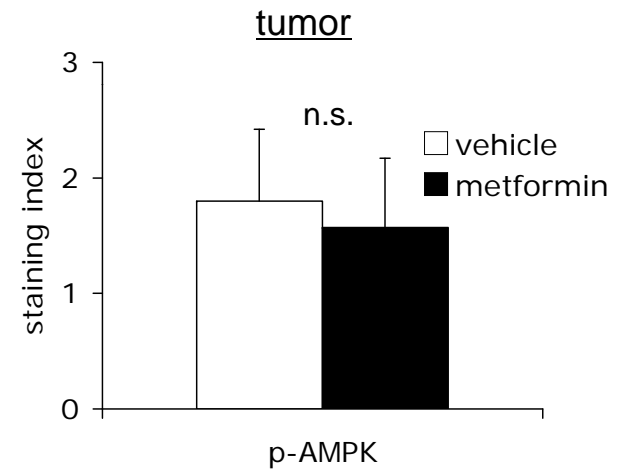
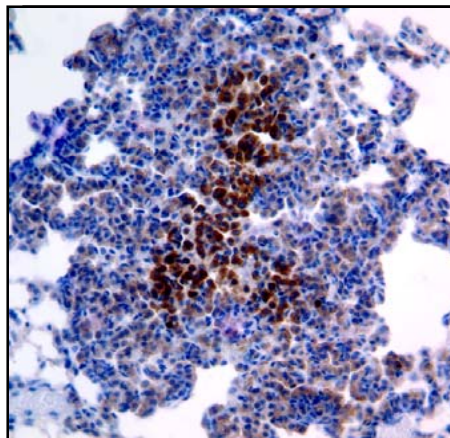
airway epithelium, metformin



tumor, vehicle



tumor, metformin



## Supplementary Figure 2

H&E, liver, NIH-07 diet

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