Supplemental Information

Decreased Lung Tumor Development in SwAPP Mice through the Downregulation of CHI3L1 and STAT 3 Activity via the Upregulation of miRNA342-3p

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Supplementary Figure 1
Supplementary Figure 2

A

|          | Saline | Urethane | Saline | Urethane |
|----------|--------|----------|--------|----------|
| Ikβ      | 1.0±0.1| 0.3±0.1  | 0.5±0.1| 0.2±0.1  |
| p-Ikβ    | 1.0±0.2| 1.9±0.2  | 0.6±0.1| 1.2±0.3  |
| β-actin  | 1.0±0.0| 8.3±0.3  | 2.1±0.2| 3.1±0.3  |
| p65      | 1.0±0.0| 3.1±0.1  | 1.6±0.1| 2.5±0.1  |
| p50      | 1.0±0.0| 3.1±0.1  | 1.6±0.1| 2.5±0.1  |
| Histone  |        |          |        |          |

B

|          | WT     | swAPP   |
|----------|--------|---------|
| Saline   |        |         |
| Urethane |        |         |
| NF-kB    |        |         |
Supplementary Figure Legends

Supplementary Figure 1. Effect of swAPP overexpression on the expression of tumor promoting protein in lung tumor. Expression of tumor promoting proteins (PCNA, MMP-9, Cyclin E1, Cyclin D1, Cyclin B1, CDK6, CDK4, and CDK2) in mouse lung tissues was measured through Western blot analysis.

Supplementary Figure 2. Effect of swAPP overexpression on activation of NF-κB. IκB, p-IκB, p50, and p65 protein expression in Non-TG and swAPP mice were measured through western blot analysis (A). The DNA-binding activity of NF-κB was analyzed with EMSA in Non-TG and swAPP mice (B).