**Figure S1**

<table>
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<th>Treatment, hr</th>
<th>siCO C</th>
<th>2</th>
<th>3</th>
<th>siTLR2 C</th>
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<th>2</th>
<th>3</th>
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<tbody>
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<td>TLR-2</td>
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<td>ATF3</td>
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<td>TNF-α</td>
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<td>β-actin</td>
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</tbody>
</table>
Figure S2
Figure S3

A

S. pneumoniae infection
Anti-PLY serum (µL)

Ctrl Normal serum 0 1 5 10

ATF3

β-actin

B

PLY released into media

Ctrl 2h 4h

PLY

ATF3/β-actin

0.0 0.5 1.0 1.5

Ctrl NS 0 1 5 10

2.0

0.0 0.5 1.0 1.5 2.0

Ctrl 2 h 4 h

*
Supplement Figure legends

**Figure S1. PLY-dependent ATF3 and TNF-α induction is not mediated by TLR2.** RAW 264.7 cells were transfected with siTLR2 for 24 hr and then incubated with 500 ng/ml of PLY for 0, 1, 2, or 3 hr. Subsequently, the cell lysates were analyzed by Western blotting. The data are representative of two independent experiments.

**Figure S2. Impairment of ATF3 induction by PLY antibody.** RAW 264.7 cells were incubated with purified PLY in the presence or absence of anti-PLY serum for 2 hr. Cell lysates were collected for a Western blot analysis. Dose-dependent impairment of ATF3 induction was detected. The data are representative of three independent experiments and analyzed by one-way ANOVA. Data are shown as mean ± S.D. *P < 0.05.

**Figure S3. Release of PLY into the culture media by pneumococcal infection.** (A) RAW 264.7 cells were infected with *S. pneumoniae* in the presence or absence of anti-PLY serum for 2 hr. Cell lysates were collected for a Western blot analysis. A dose-dependent decrease in the ATF3 level was detected. (B) RAW 264.7 cells were infected with *S. pneumonia* for 2 and 4 hr. Cell supernatants were collected, and proteins were precipitated by 10% Trichloroacetic acid and used for Western blots to detect PLY. The data are representative of three independent experiments and were analyzed by one-way ANOVA. Data are shown as mean ± S.D. *P < 0.05.