

## Supplementary Materials for

### **PTEN Directly Activates the Actin Depolymerization Factor Cofilin-1 During PGE<sub>2</sub>-Mediated Inhibition of Phagocytosis of Fungi**

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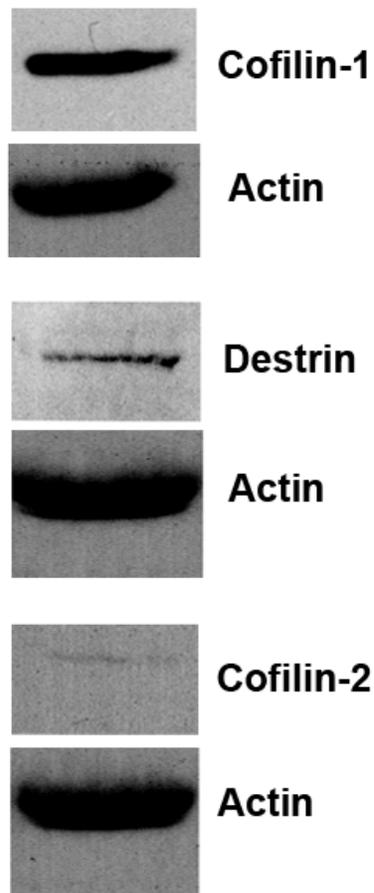
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#### **The PDF file includes:**

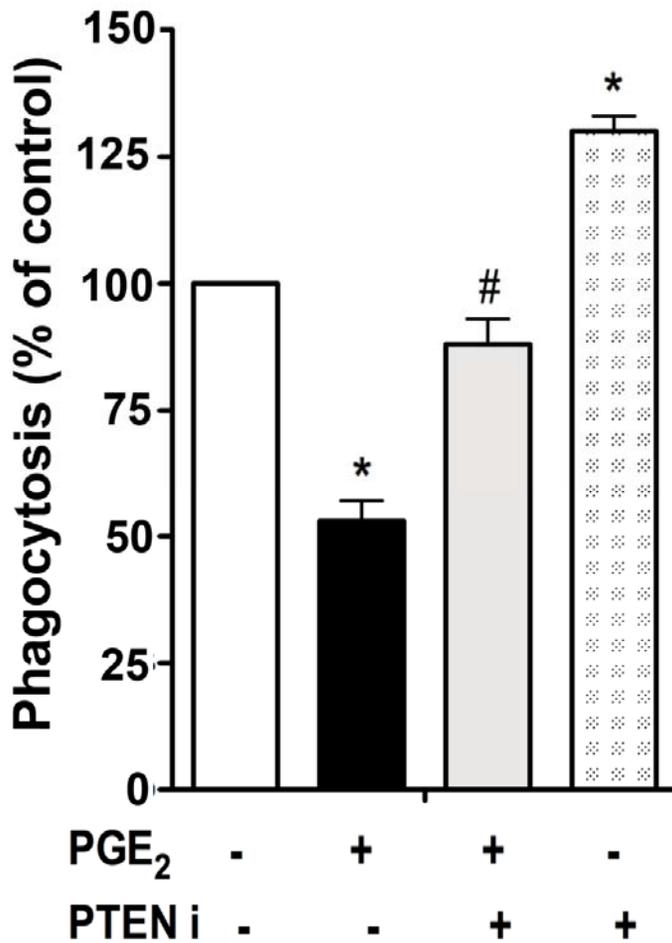
Fig. S1. Actin depolymerizing factors in alveolar macrophages.

Fig. S2. Pharmacological inhibition of PTEN prevents the effects of PGE<sub>2</sub> on *C. albicans* phagocytosis.

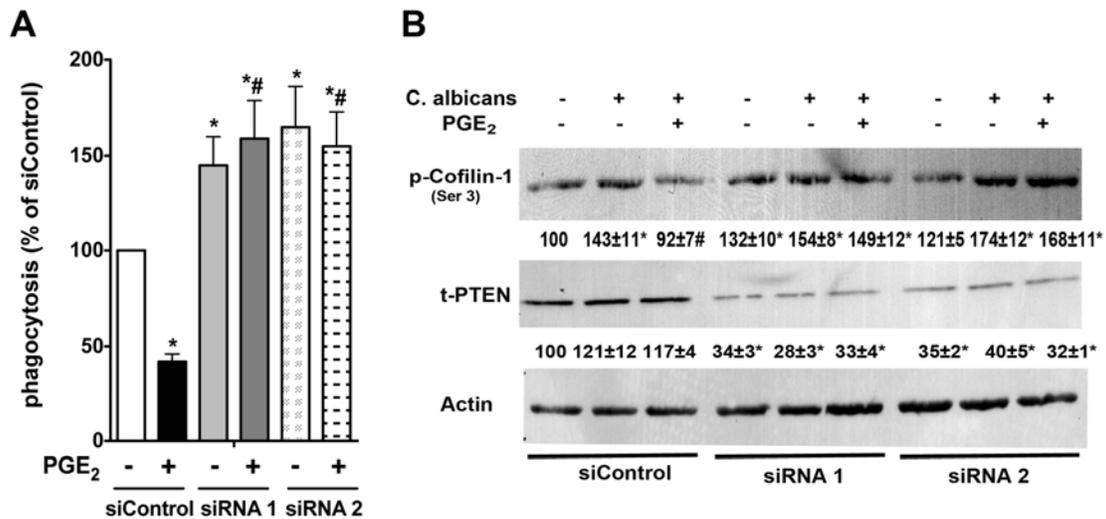
Fig. S3. Individual PTEN siRNAs prevent inhibition of phagocytosis and activation of cofilin-1 by PGE<sub>2</sub>.



**Fig. S1. Actin depolymerizing factors in alveolar macrophages.** Whole cell lysates from rat alveolar macrophages were prepared and Western blots performed using rabbit polyclonal anti-cofilin-1, anti-destrin, and anti-cofilin-2. The blot shown is representative of 4 independent experiments.



**Fig. S2. Pharmacological inhibition of PTEN prevents the effects of PGE<sub>2</sub> on *C. albicans* phagocytosis.** Alveolar macrophages were pretreated for 20 min with the PTEN inhibitor bpV(pic) (100 nM) or vehicle alone, followed by PGE<sub>2</sub> (1 μM) for 5 min, and then challenged for 90 min with <sup>FITC</sup>*C. albicans*. Phagocytosis is calculated as percent of control. Results represent the mean ± SE from 3 independent experiments performed in quadruplicate. \*,  $p < 0.05$  compared to untreated control and #,  $p < 0.001$  compared to PGE<sub>2</sub> alone by ANOVA.



**Fig. S3. Individual PTEN siRNAs prevent inhibition of phagocytosis and activation of cofilin-1 by PGE<sub>2</sub>.** (A) Alveolar macrophages were incubated with PTEN siRNA 1 or 2 or scrambled control siRNA 1 for 48 hours, then PGE<sub>2</sub> for 5 min, followed by <sup>FITC</sup>C. albicans for 90 min, after which phagocytosis was assessed. (B) Alveolar macrophages were silenced as in (A), then treated with PGE<sub>2</sub> for 5 min, followed by C. albicans for 15 min. Lysates were subjected to immunoblot for phosphorylated cofilin-1 (Ser<sup>3</sup>), total PTEN, and GAPDH. The numbers below the bands represent the mean ± SEM relative densitometry values from at least 3 independent experiments.