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Author Correction: Aggravation of acute kidney injury by mPGES-2 down regulation is associated with autophagy inhibition and enhanced apoptosis

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This Article contains errors.

In Figure 7 the labelling of the immunoblot analysis in panel A is incorrect, and in panel F the flow cytometry plots for 'PBS + negative' and 'PBS + siRNA-mPGES2' are incorrect. The correct Figure 7 appears below as Figure 1.

Additionally, the Supplementary Information file published with this Article contains an error in Supplementary Figure 1. In panels A and D, the label 'LC-3B' should read 'LC-3BI' and 'LC-3BII'. In panel F, 'LPS' should read 'H₂O₂'. The correct Figure S1 appears below as Figure 2.

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Figure 1. Effects of mPGES-2 interference on autophagy and apoptosis of HK-2 cells treated with LPS. (A) Shown are the levels of mPGES-2 expression in HK-2 cells transfected with control siRNA and siRNA-mPGES-2 after treatment with 1000 ng/ml LPS for 12 h measured by qRT-PCR (left panel) and immunoblot analyses (middle panel). Right panel shows the ratios of mPGES-2/β-actin. (B) Shown are the immunoblot results of LC3B and p62 (left panel) and the ratios of LC3B-II/LC3B-I and p62/β-actin (right panel) in HK-2 cells transfected with control siRNA and siRNA-mPGES-2 after treatment with 1000 ng/ml LPS for 12 h. (C) Shown are the immunofluorescence analyses of HK-2 cells in different groups treated with 1000 ng/ml LPS for 12 h (left panel, scale bar: 20 μm) and the average number of autophagosomes per cell measured in at least 30 cells (right panel). (D) Shown are the viabilities of HK-2 cells in different groups measured using CCK8 analysis. (E) Shown are the LDH cytotoxicity detection in different groups. (F) Shown are the apoptosis of HK-2 cells in different groups examined by flow cytometry. (G) Shown are the ratios of apoptotic cells in different groups (right panel). * $P < 0.05$ versus the control group. # $P < 0.05$ versus the LPS + control plasmid group. Data are mean ± SD. (n = 3).

Figure 2. The expression of mPGES-2 in H_2O_2 -treated HK-2 cells and the effects of mPGES-2 overexpression and interference on autophagy and apoptosis of HK-2 cells treated with H_2O_2 . (A) The expression of mPGES-2 and LC-3B protein in HK-2 cells treated with H_2O_2 at different concentrations for 12h. (B) The gray scale ratio of mPGES-2 protein to β -actin. (C) The gray scale ratio of LC3B-II/LC3B-I. (D) Shown are immunoblot of LC3BII/ LC3B-I in HK-2 cells transfected with mPGES-2 plasmid (pENTER-mPGES-2) and siRNA-mPGES-2 after treatment with H_2O_2 (0.75 mM) for 12 h. (E) Shown are the gray scale ratios of LC3B-II/LC3B-I. (F) Shown are the apoptosis of HK-2 cells in different groups examined by flow cytometry. (G) Shown are the ratios of apoptotic cells in different groups. * $P < 0.05$ versus the 0mM group. Data are mean $\pm$ SD (n=3).

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