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CORRECTION
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Corrigendum: A Synthetic Small Molecule F240B Decreases NLRP3 Inflammasome Activation by Autophagy Induction

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A Corrigendum on:

A Synthetic Small Molecule F240B Decreases NLRP3 Inflammasome Activation by Autophagy Induction
by Wu C-H, Gan CH, Li L-H, Chang J-C, Chen S-T, Menon MP, Cheng S-M, Yang S-P, Ho C-L, Chernikov OV, Lin C-H, Lam Y and Hua K-F (2020). Front. Immunol. 11:607564. doi: 10.3389/fimmu.2020.607564

In the original article, there was a mistake in **Figures 5E** and **8E** as published. We found a mismatch between the Western blot images (p-JNK1/2) in comparison to the labeling in **Figures 5E**. Regarding the effect of F240B on LPS-induced phosphorylation of ERK1/2, p38 and JNK1/2, we tested two time-course studies: (A) condition was LPS treatment for 0, 10, 20, 30 min (total eight groups), (A) condition was LPS treatment for 0, 10, 20, 30, 60 min (total ten groups). In the **Figures 5E** of the original manuscript, we used (A) condition for ERK1/2, p38; however, we used (B) condition for JNK. In addition, in **Figures 8E** of the original manuscript, the Western blot image of input NLRP3 included a non-specific band (far left band), making it looks like a mismatch between input NLRP3 and input PKR. The corrected **Figures 5E** and **8E** appear below.

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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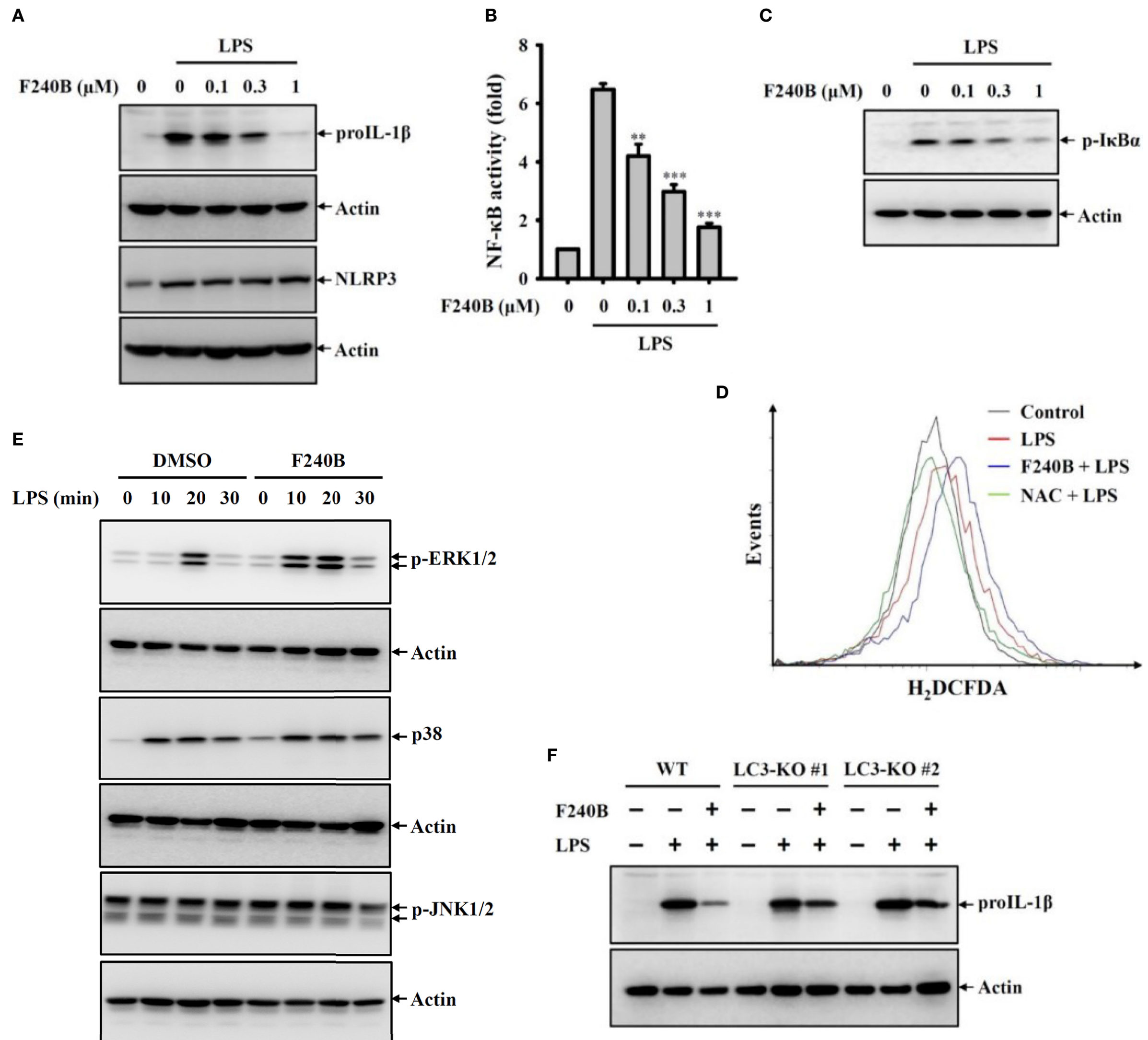

FIGURE 5 | Activation of autophagy by F240B inhibits NF-kB activation and proIL-1b expression. **(A)** J774A.1 macrophages were incubated with F240B for 0.5 h followed by incubated with 1 μg/ml LPS for 6 h. The levels of proIL-1b and NLRP3 in the cell lysates were measured by Western blotting. **(B)** J-Blue cells were incubated with F240B for 0.5 h followed by incubated with 1 μg/ml LPS for 24 h. The NF-kB transcriptional activity was measured by NF-kB reporter assay. **(C, D)** J774A.1 macrophages were incubated with F240B (1 μM for ROS assay) for 0.5 h followed by incubated with 1 μg/ml LPS for 10 min. The phosphorylation levels of IkBa in the cell lysates were measured by Western blotting **(C)**, and the intracellular ROS production was analysed by H2DCFDA staining **(D)**. **(E)** J774A.1 macrophages were incubated with 1 μM F240B for 0.5 h followed by incubated with 1 μg/ml LPS for 10-30 min. The phosphorylation levels of ERK1/2, JNK1/2 and p38 in the cell lysates were measured by Western blotting. **(F)** Will-type or LC3-knockout J774A.1 macrophages were incubated with1 μM F240B for 0.5 h followed by incubated with 1 μg/ml LPS for 6 h. The levels of proIL-1b in the cell lysates were measured by Western blotting. ** and *** indicate a significant difference at the level of $p < 0.01$ and $p < 0.001$, respectively compared to LPS.

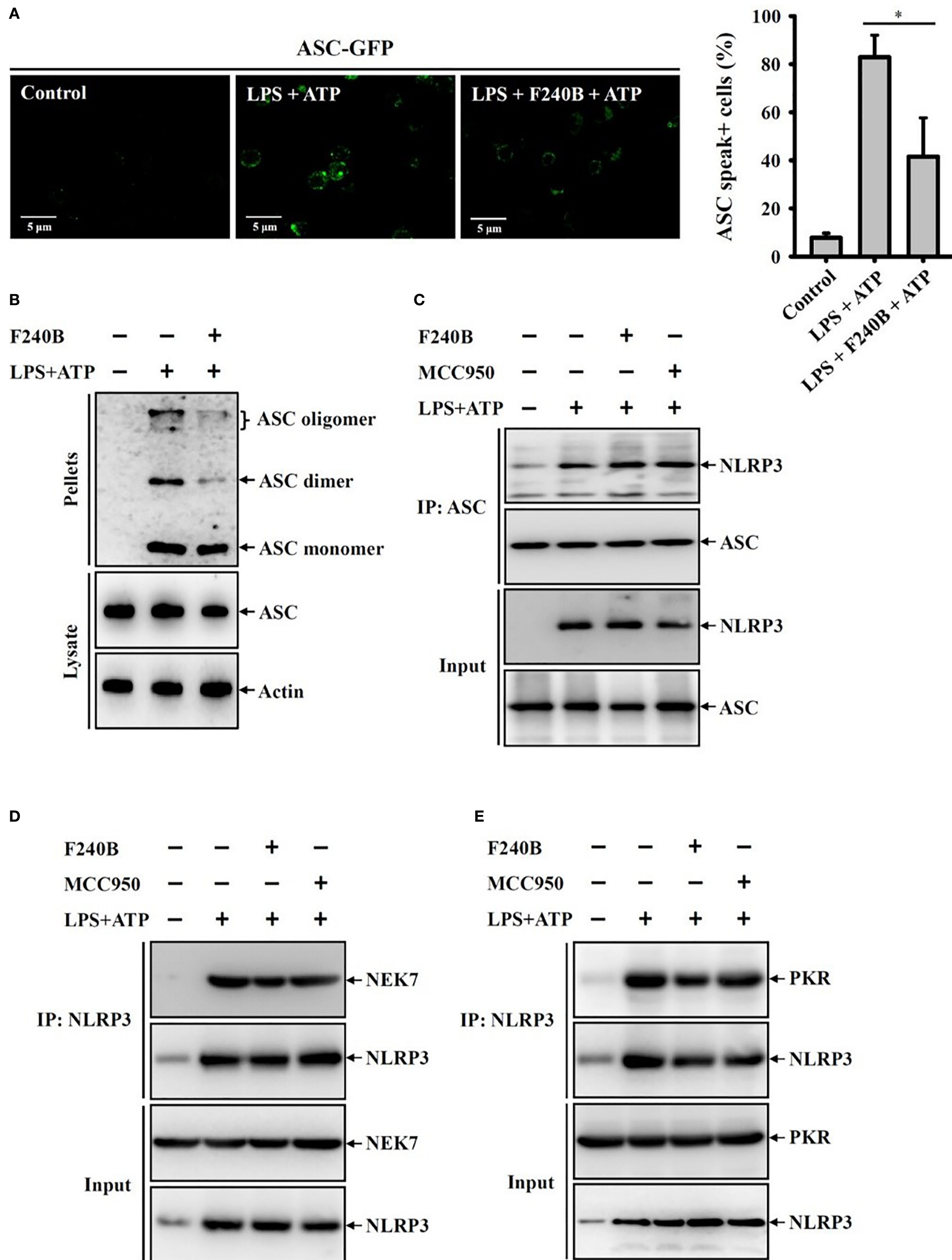

FIGURE 8 | F240B inhibits ASC oligomerization. **(A)** ASC-GFP expressed J774A.1 macrophages or **(B)** J774A.1 macrophages were incubated with 1 μg/ml LPS for 5 h followed by incubated with 1 μM F240B for 3 h. Cells then incubated with 5 mM ATP for 0.5 h. The ASC speck formation was analyzed by fluorescent microscope **(A)**, or the cell lysates were crosslinked by disuccinimidyl suberate and ASC oligomerization was analyzed by Western blotting **(B)**. **(C–E)** J774A.1 macrophages were incubated with 1 μg/ml LPS for 5 h followed by incubated with 1 μM F240B or 0.1 μM MCC950 for 3 h. Cells then incubated with 5 mM ATP for 0.5 h. The interaction between NLRP3 with ASC **(C)**, NEK7 **(D)** or PKR **(E)** were analyzed by immunoprecipitation and Western blotting assay. The percentage of ASC speck positive cells are expressed as the mean ± SD of three separate experiments. * indicates a significant difference at the level of $p < 0.05$.