

Electronic Supplementary Material 1

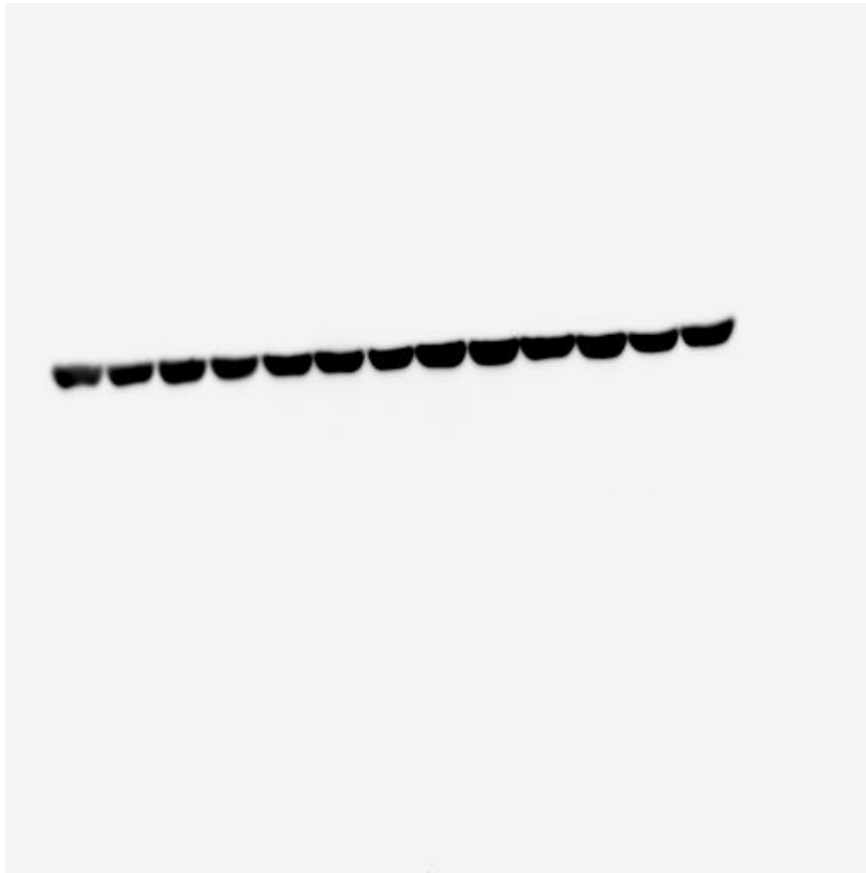


Figure E1. Western blot of actin-(1).

From left to right: 6. Blank; 7. LPS+ dexamethasone; 8. LPS; 9. LPS + 25 $\mu\text{g}/\text{mL}$ capsaicin; 10. LPS + 50 $\mu\text{g}/\text{mL}$ capsaicin; 11. LPS + 75 $\mu\text{g}/\text{mL}$ capsaicin; 12. LPS + 100 $\mu\text{g}/\text{mL}$ capsaicin.

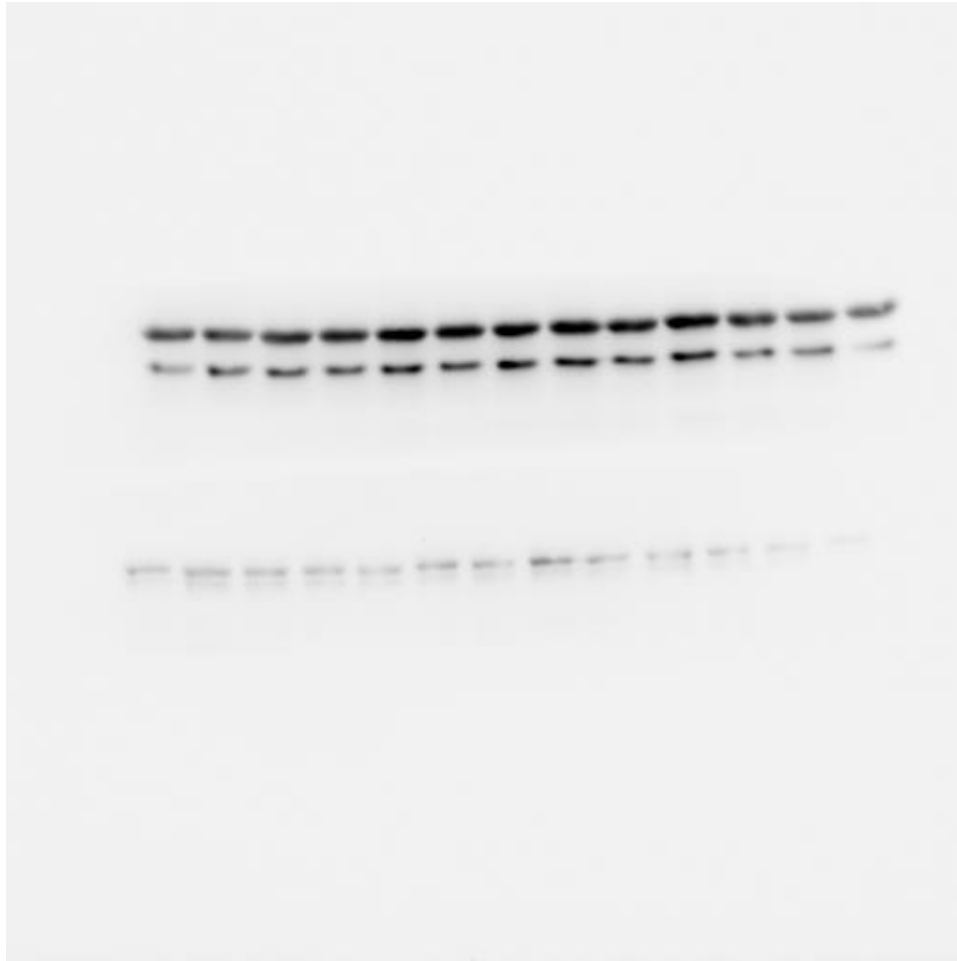


Figure E2. Western blot of erk3.

From left to right: 7. 8. LPS + 25 $\mu\text{g}/\text{mL}$ capsaicin; 9. LPS + 50 $\mu\text{g}/\text{mL}$ capsaicin; 10. LPS + 75 $\mu\text{g}/\text{mL}$ capsaicin; 11. LPS + 100 $\mu\text{g}/\text{mL}$ capsaicin, 12. LPS+ dexamethasone; 13. Blank.

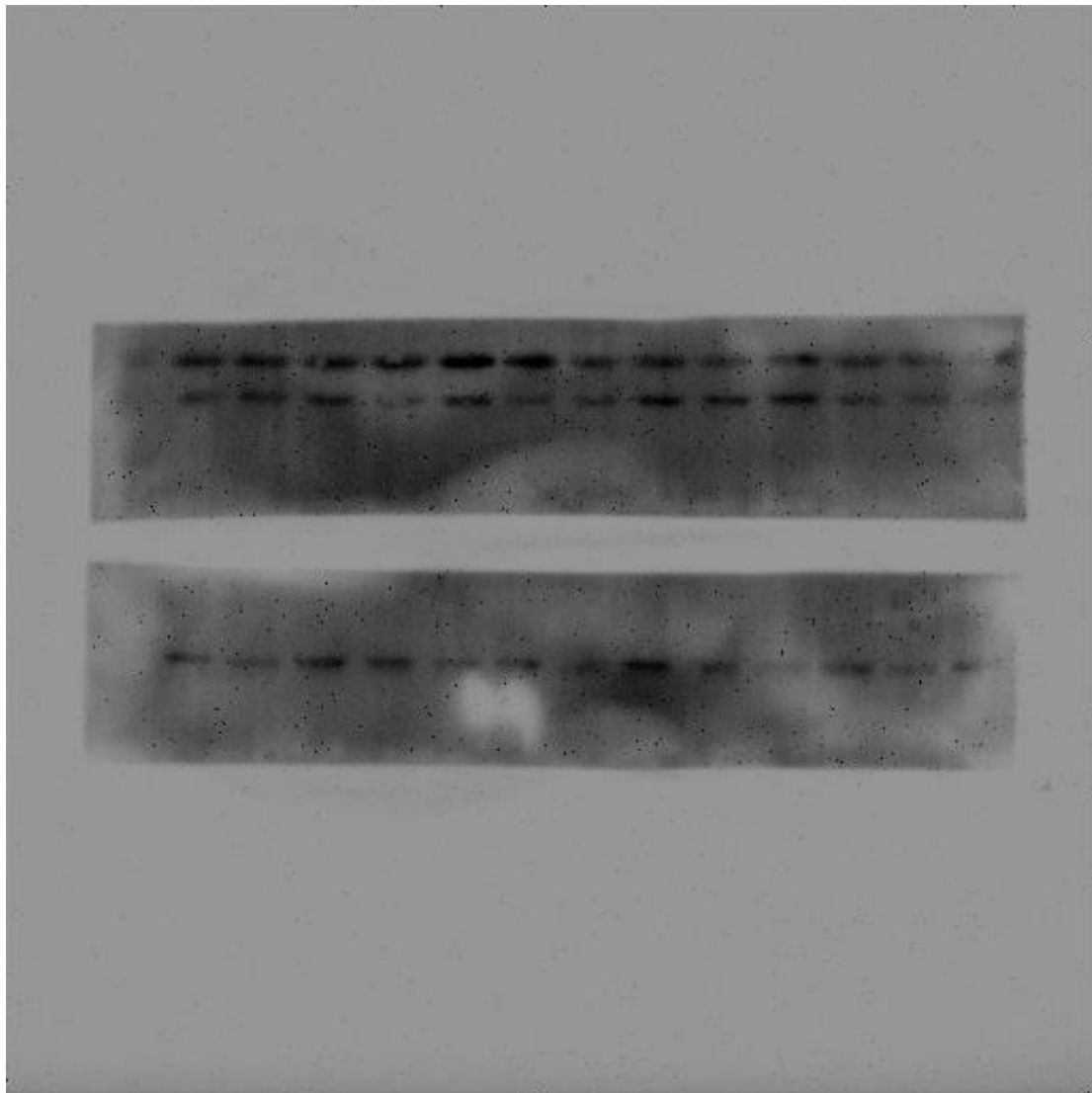


Figure E3. Western blot of p-Erk.

From left to right: 6. Blank; 7. LPS+ dexamethasone; 8. LPS; 9. LPS + 25 $\mu\text{g}/\text{mL}$ capsaicin; 10. LPS + 50 $\mu\text{g}/\text{mL}$ capsaicin; 11. LPS + 75 $\mu\text{g}/\text{mL}$ capsaicin; 12. LPS + 100 $\mu\text{g}/\text{mL}$ capsaicin.

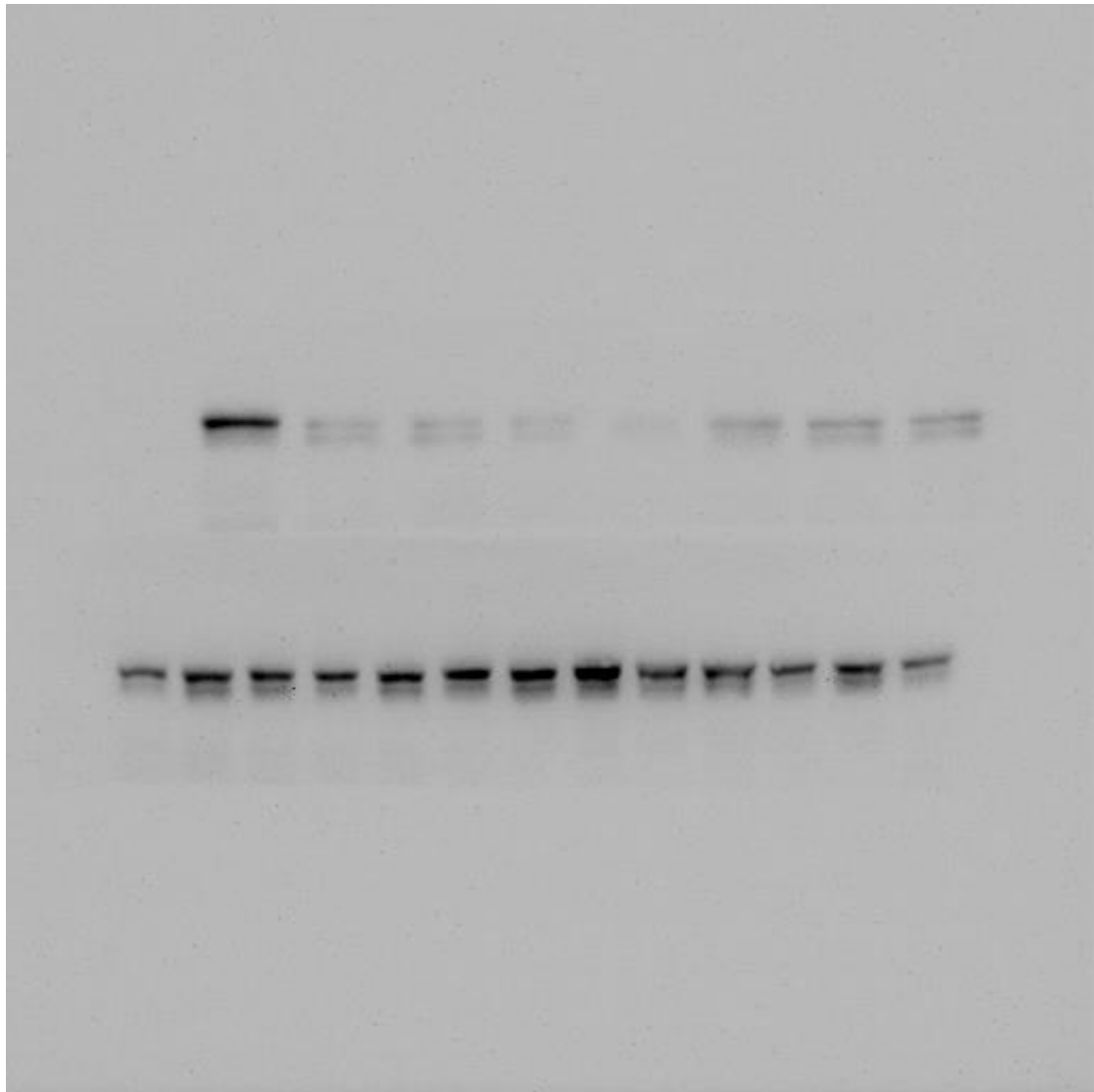


Figure E4. Western blot of p65-2.

From left to right: 1. 2. LPS + dexamethasone; 8. LPS; 7. LPS + 25 $\mu\text{g}/\text{mL}$ capsaicin; 6. LPS + 50 $\mu\text{g}/\text{mL}$ capsaicin; 5. LPS + 75 $\mu\text{g}/\text{mL}$ capsaicin; 4. LPS + 100 $\mu\text{g}/\text{mL}$ capsaicin.

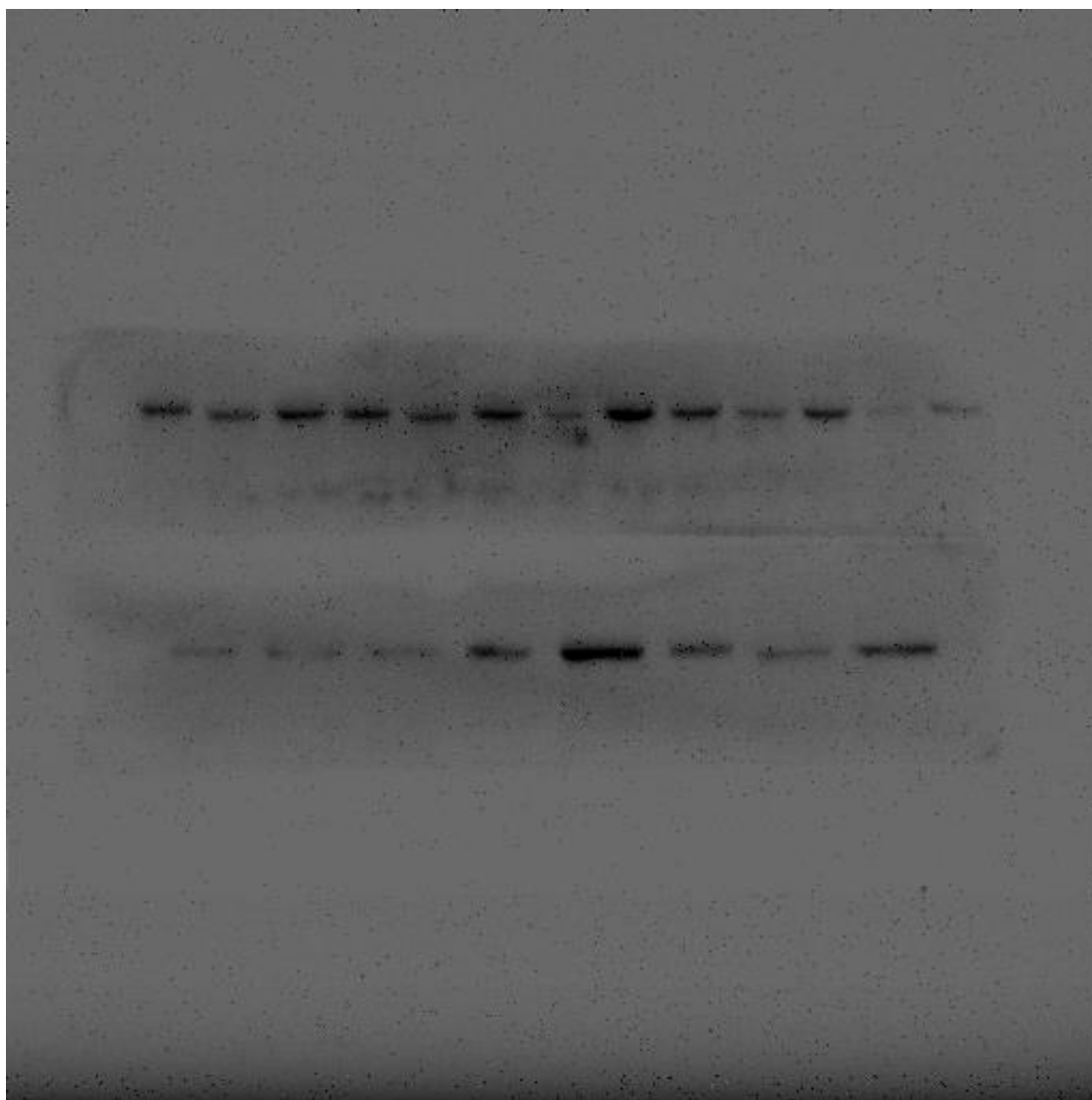


Figure E5. Western blot of p-p65.

From left to right: 1. 2. LPS + dexamethasone; 8. LPS; 9. LPS + 25 $\mu\text{g}/\text{mL}$ capsaicin; 11. LPS + 50 $\mu\text{g}/\text{mL}$ capsaicin; 10. LPS + 75 $\mu\text{g}/\text{mL}$ capsaicin; 13. LPS + 100 $\mu\text{g}/\text{mL}$ capsaicin.

Table E1. Primer sequences

| Gene | Primer sequence | Length |
|--------------------------------|---------------------------------|--------|
| <i>IL-6</i> | F, 5'-TGATGGATGCTACCAAACCTGG-3' | 280 bp |
| | R, 5'-TGGTCTTGGTCCTTAGCCACT-3' | |
| <i>TNF-α</i> | F, 5'-GCCAGGAGGGAGAACAGAAACT-3' | 238 bp |
| | R, 5'-AAGAGGCTGAGACATAGGCACC-3' | |
| <i>iNOS</i> | F, 5'-ACGCTCGGAACTGTAGCACA-3' | 276 bp |
| | R, 5'-GCACATCAAAGCGGCCA-3' | |
| <i>ACTB</i> | F, 5'-GAAGATCAAGATCATTGCTCCT-3' | 111 bp |
| | R, 5'-TACTCCTGCTTGCTGATCCA-3' | |

Table E2. Effects of capsaicin on the phagocytic function of peritoneal macrophages

| Group | OD value |
|---------------------------|------------------|
| Blank group | 0.162 ± 0.007 |
| LPS group | 0.203 ± 0.025& |
| Dexamethasone group | 0.322 ± 0.017& |
| 25 µg/mL capsaicin group | 0.193 ± 0.020&## |
| 50 µg/mL capsaicin group | 0.298 ± 0.037&** |
| 75 µg/mL capsaicin group | 0.240 ± 0.018&*# |
| 100 µg/mL capsaicin group | 0.193 ± 0.030&## |

Compared with the blank group: & indicates $P < 0.05$, && indicates $P < 0.01$. A

comparison between the capsaicin and LPS groups: ** indicates $P < 0.01$. A

comparison between the capsaicin and dexamethasone groups: # indicates $P < 0.05$;

indicates $P < 0.01$.

Description of images of western blots

In the article "Effects of capsaicin on macrophage anti-inflammatory activity via MAPK and NF- κ B signaling pathways," Figure E3 shows the effects of capsaicin on the expression levels of ERK and p-erk proteins in LPS-induced peritoneal macrophages. Figure E4 shows the effect of capsaicin on expression levels of p65 and p-p65 proteins in LPS-induced peritoneal macrophages. To make the arrangement order of each group in figure E4 and figure E5 in this paper consistent, the original figure was clipped and shifted.