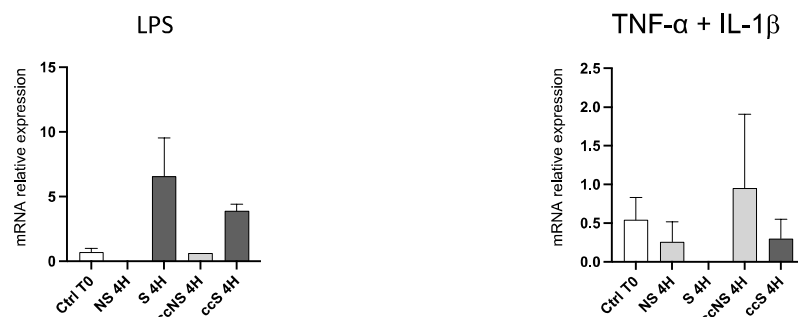


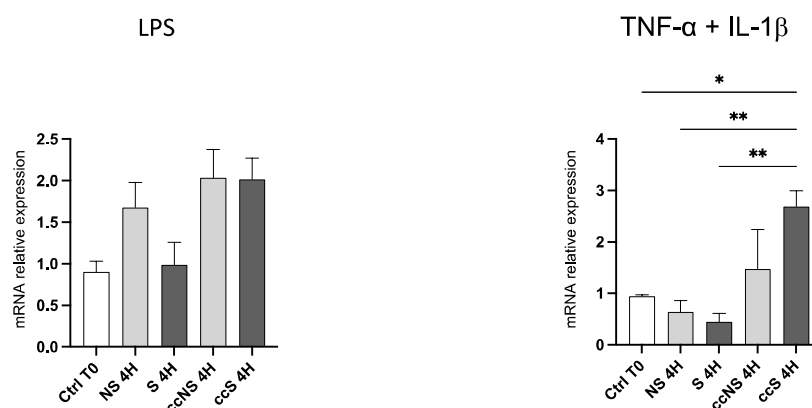
Supplementary Materials

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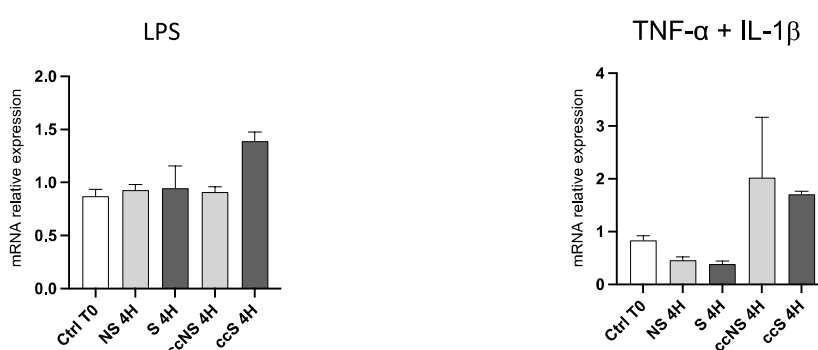
A.



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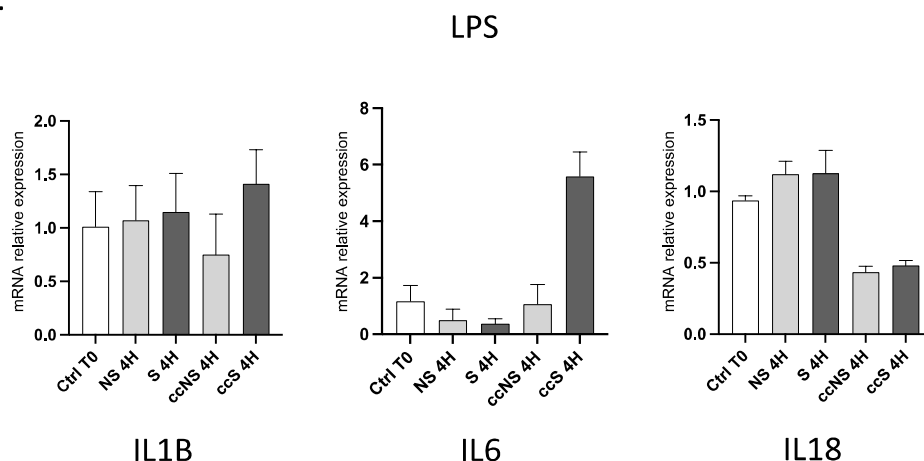


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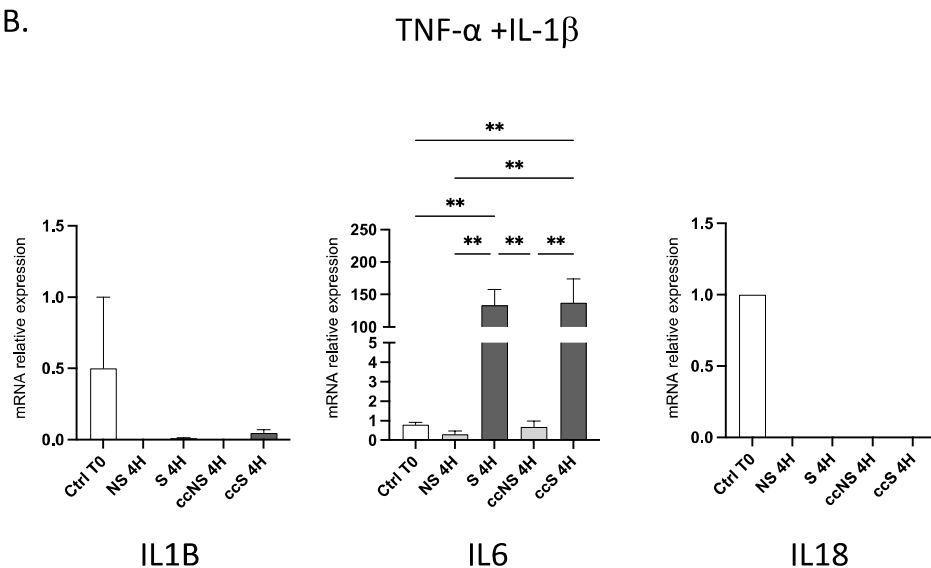
**Supplementary Figure S1. A.** Relative expression of the gene encoding NLRP3 in fibroblasts treated with LPS (left panel) or TNF-α and IL-1β (right panel) for four 4 h, alone or in co-culture with DPSCs. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean ± SD of three independent experiments. **B.** Relative expression of the genes encoding NAIP in fibroblasts treated with LPS (left panel) or TNF-α and IL-1β (right panel) for four 4 h, alone or in co-culture with DPSCs. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean ± SD of three independent experiments. **C.** Relative expression of the genes encoding PYCARD in fibroblasts treated with LPS (left panel) or TNF-α and IL-1β (right panel) for four 4 h, alone or in co-culture with DPSCs. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean ± SD of three independent experiments. Ctrl: fibroblasts before stimulation, without co-culture; NS: non-stimulated; S: stimulated; ccNS: non-stimulated in co-culture with DPSCs; ccS: stimulated in co-culture with DPSCs. \*= $p < 0.05$ ; \*\*= $p < 0.01$ .

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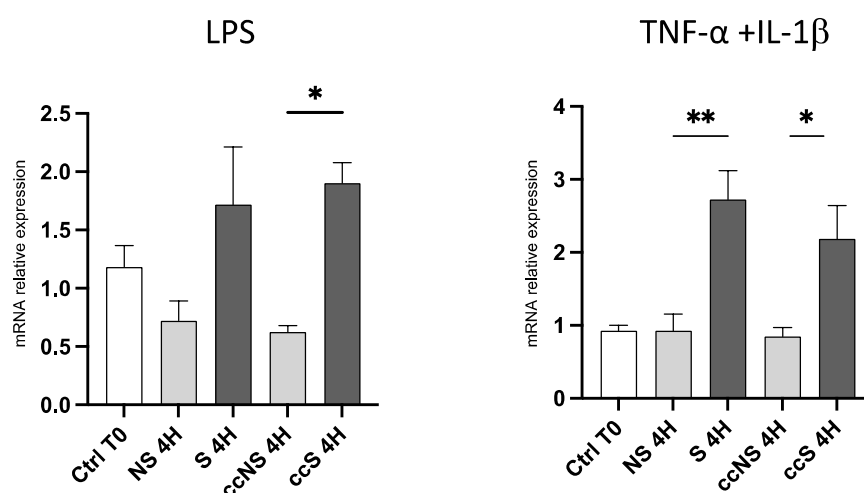
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**Supplementary Figure S2. A.** Relative expression of the genes encoding pro-inflammatory cytokines IL-1 $\beta$ , IL-6, and IL-18 in DPSCs treated with LPS (upper panels) or TNF- $\alpha$  and IL-1 $\beta$  (lower panels) for four 4 h, alone or in co-culture with fibroblasts. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean  $\pm$  SD of three independent experiments. **B.** Relative expression of the genes encoding pro-inflammatory cytokines IL-1 $\beta$ , IL-6 and IL-18 in DPSCs treated with TNF- $\alpha$  and IL-1 $\beta$  for four 4 h, alone or in co-culture with fibroblasts. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean  $\pm$  SD of three independent experiments. Ctrl: DPSCs before stimulation, without co-culture; NS: non-stimulated; S: stimulated; ccNS: non-stimulated in co-culture with fibroblasts; ccS: stimulated in co-culture with DPSCs. \*= $p$ <0.05; \*\*= $p$ <0.01; \*\*\*= $p$ <0.001; \*\*\*\*= $p$ <0.0001.



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**Supplementary Figure S3.** Relative expression of the gene encoding TRL4 in fibroblasts treated with LPS (left panel) or TNF- $\alpha$  and IL-1 $\beta$  (right panel) for four 4 h, alone or in co-culture with DPSCs. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean  $\pm$  SD of three independent experiments. Ctrl: fibroblasts before stimulation, without co-culture; NS: non-stimulated; S: stimulated; ccNS: non-stimulated in co-culture with DPSCs; ccS: stimulated in co-culture with DPSCs.  $\ast$ = $p$ <0.05;  $\ast\ast$ = $p$ <0.01.

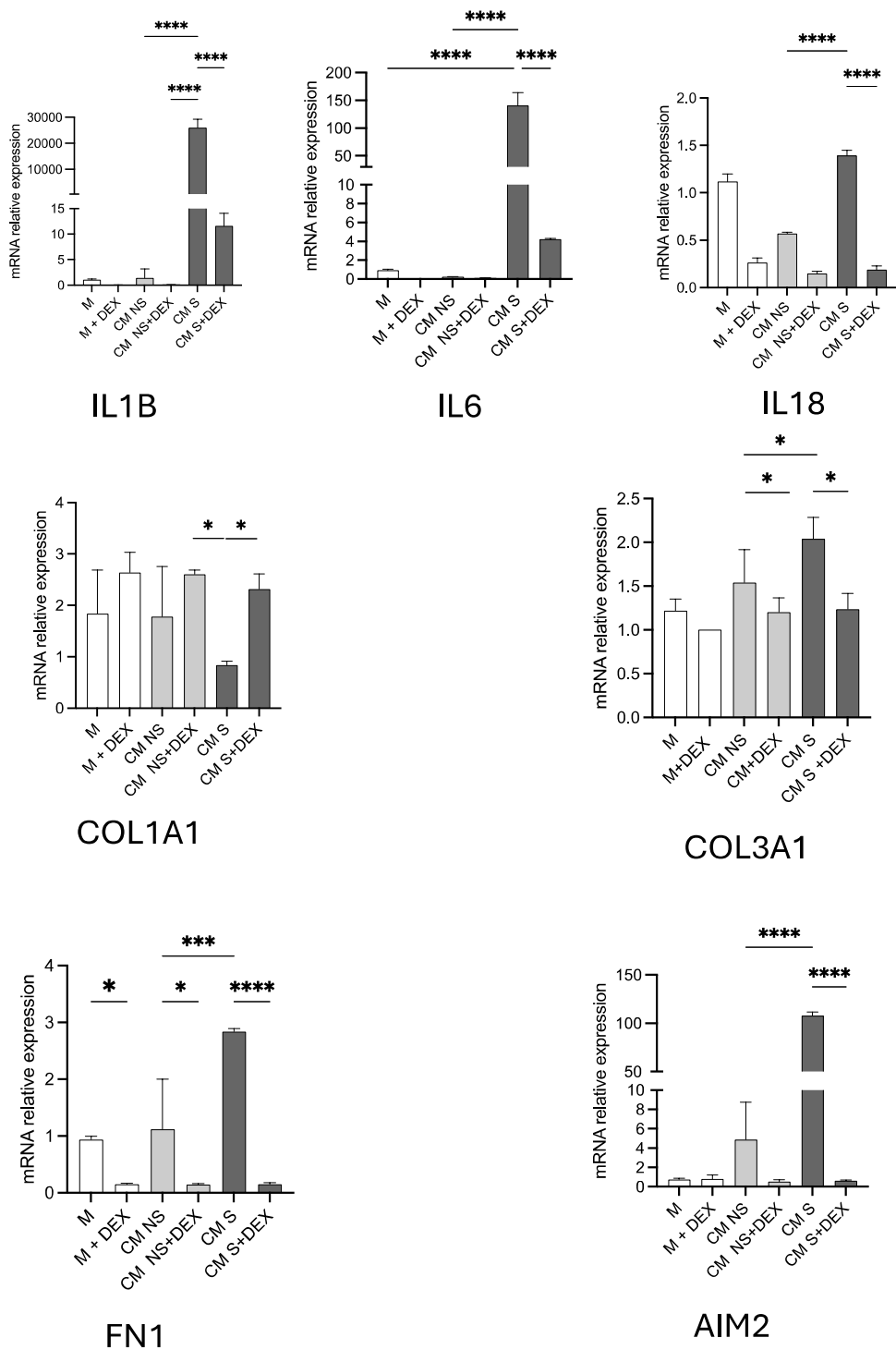
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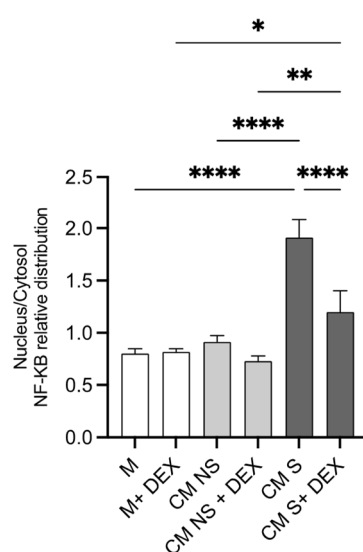
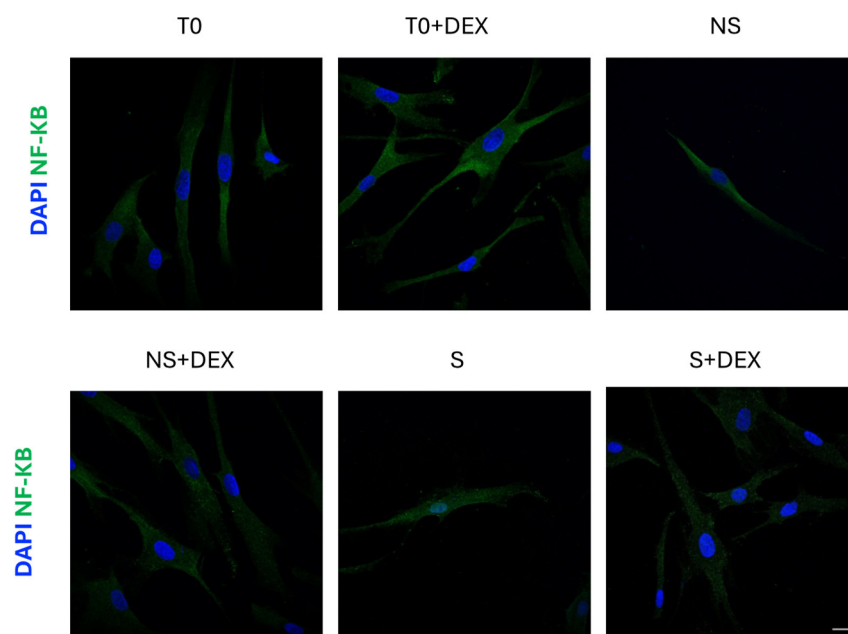
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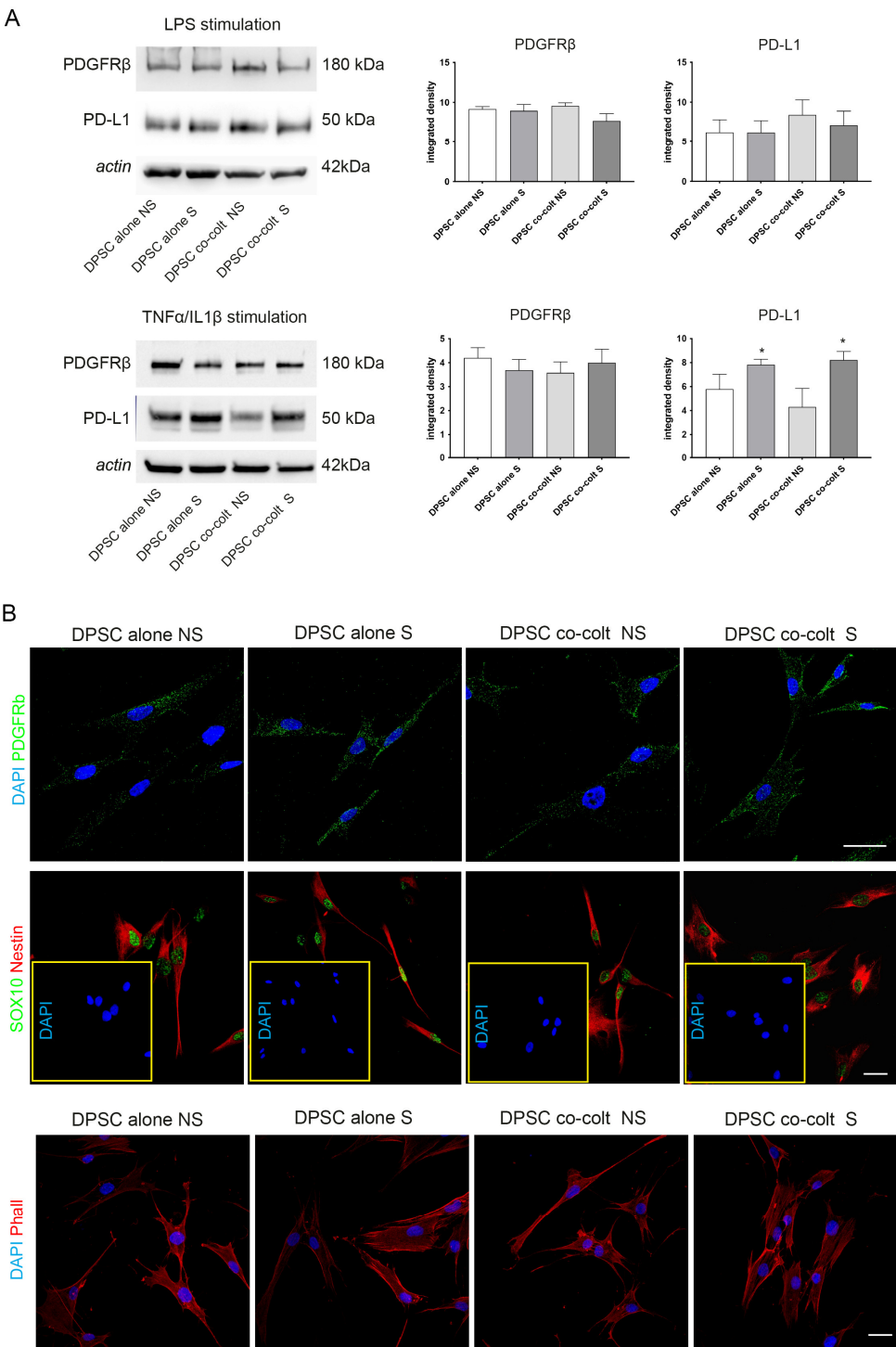
A.



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**Supplementary Figure S4. A.** Relative expression of the genes encoding IL1B, IL6, IL18, COL1A1, COL3A1, FN1 and AIM2 in fibroblasts cultured for 4 hours in a medium conditioned by DPSCs, in the presence or absence of Dexamethasone (DEX) 1  $\mu$ M. Data are reported as fold change respect to Ctrl T0, set to 1, and shown as mean  $\pm$  SD of three independent experiments. **B.** Expression of NF-kB in fibroblasts cultured for 24 h in a medium conditioned by DPSCs in the presence or absence of DEX 1  $\mu$ M. Upper panel: representative confocal microscopy images showing the cytoplasmic and nuclear distribution of NF-kB p65 in the indicated conditions. Lower panel: relative distribution of NF-kB between nucleus and cytoplasm. M: fibroblasts cultured in a non-conditioned medium in the absence of DEX; M+DEX: fibroblasts cultured in a non-conditioned medium, in the presence of DEX; CM NS: fibroblasts cultured in DPSC-conditioned medium; CM S: fibroblasts cultured in a medium conditioned by DPSC stimulated TNF- $\alpha$  and IL-1 $\beta$  for four hours; CM NS+DEX: fibroblasts cultured in DPSC-conditioned medium in the presence of DEX 1  $\mu$ M; CM S+DEX: fibroblasts cultured in a medium conditioned by DPSC stimulated TNF- $\alpha$  and IL-1 $\beta$  for four hours, in the presence of DEX 1  $\mu$ M. Scale bar: 20 $\mu$ m. \*= $p$ <0.05; \*\*= $p$ <0.01; \*\*\*= $p$ <0.001; \*\*\*\*= $p$ <0.0001.



**Supplementary Figure S5. A.** Representative immunoblots and relative expression of PDGFR $\beta$  and PD-L1 in DPSCs treated with LPS (top) or TNF- $\alpha$ +IL-1 $\beta$  (bottom) for 24 hours, alone or in co-culture with fibroblasts. Data are reported as mean  $\pm$  SD of three independent experiments. \* $p$ <0.05. **B.** Representative confocal microscopy images of DPSCs treated with TNF- $\alpha$ +IL-1 $\beta$  for 24 hours, alone or in co-culture with fibroblasts, labeled with anti-PDGFR $\beta$ , anti-SOX10, anti-nestin antibodies and AlexaFluor 555 Phalloidin. Nuclei were counterstained with DAPI. NS: non-stimulated, S: stimulated. Scale bar: 20 $\mu$ m.

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