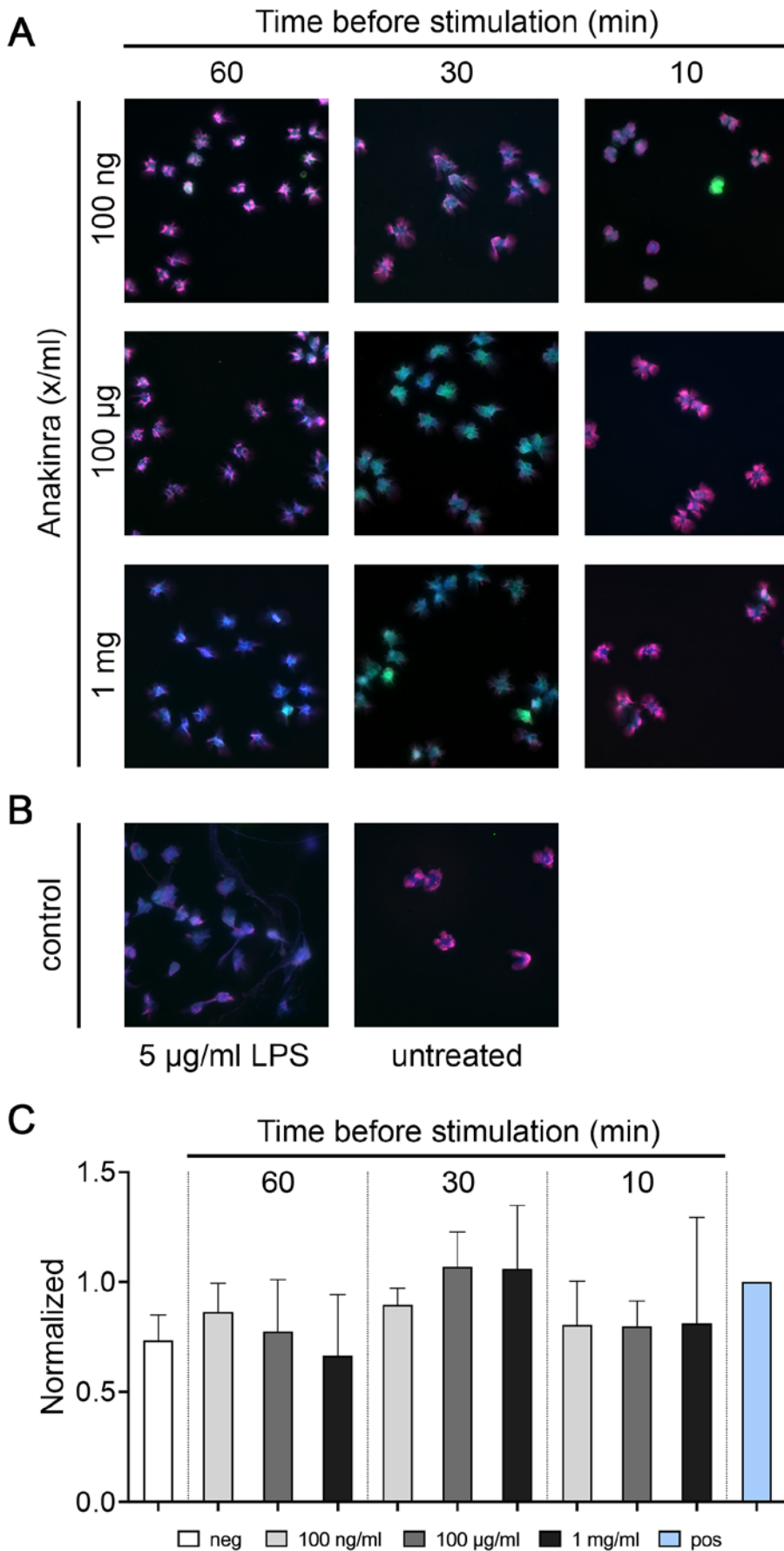
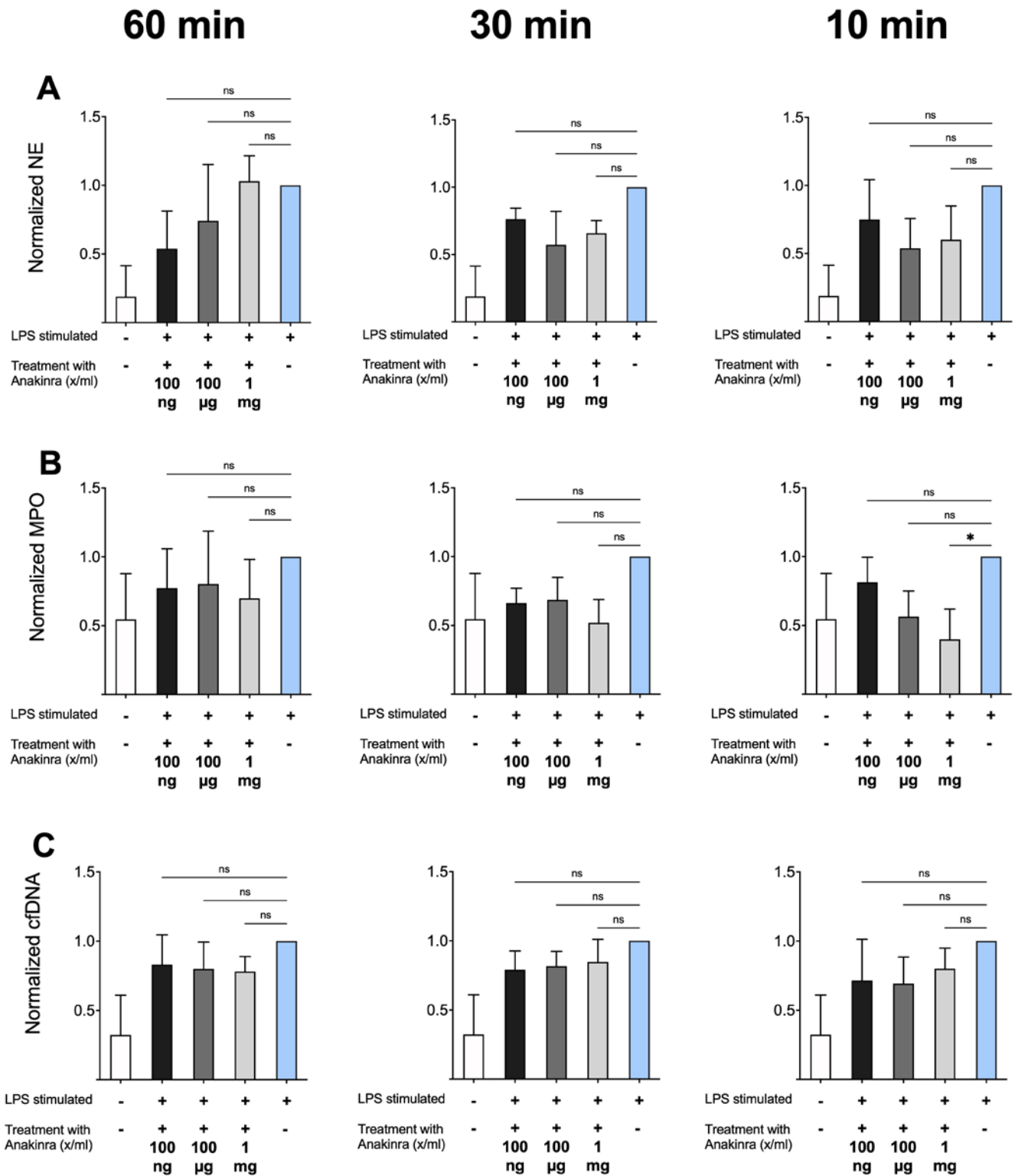


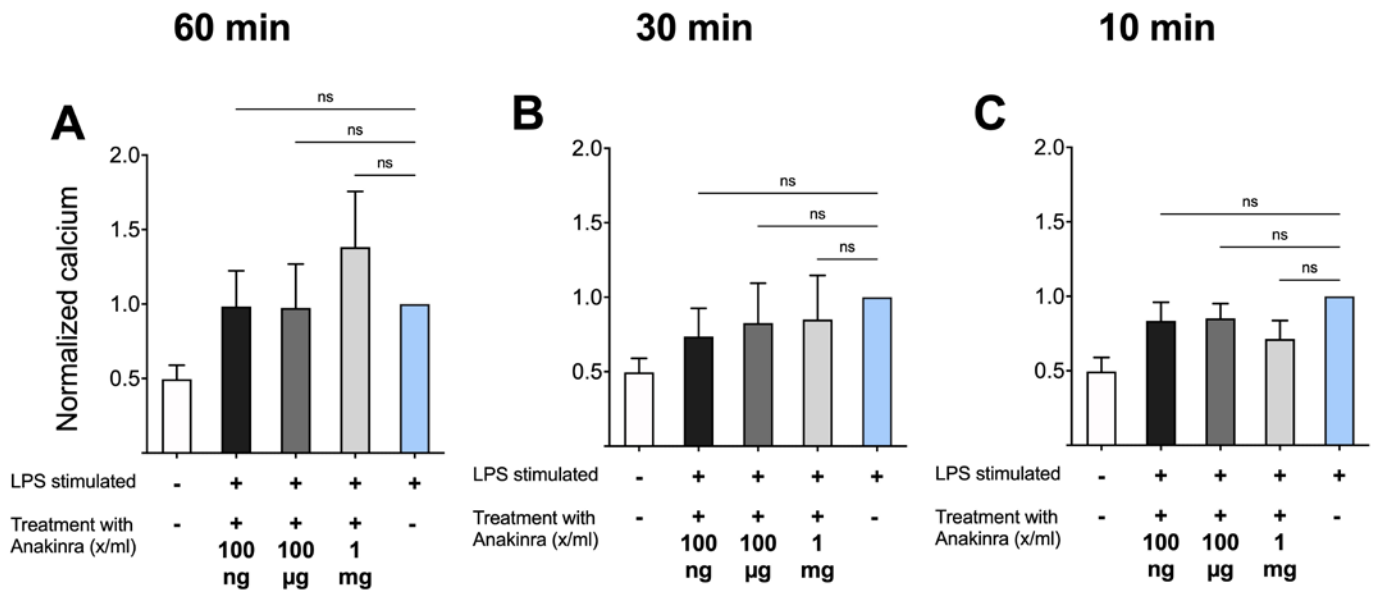
Supplementary



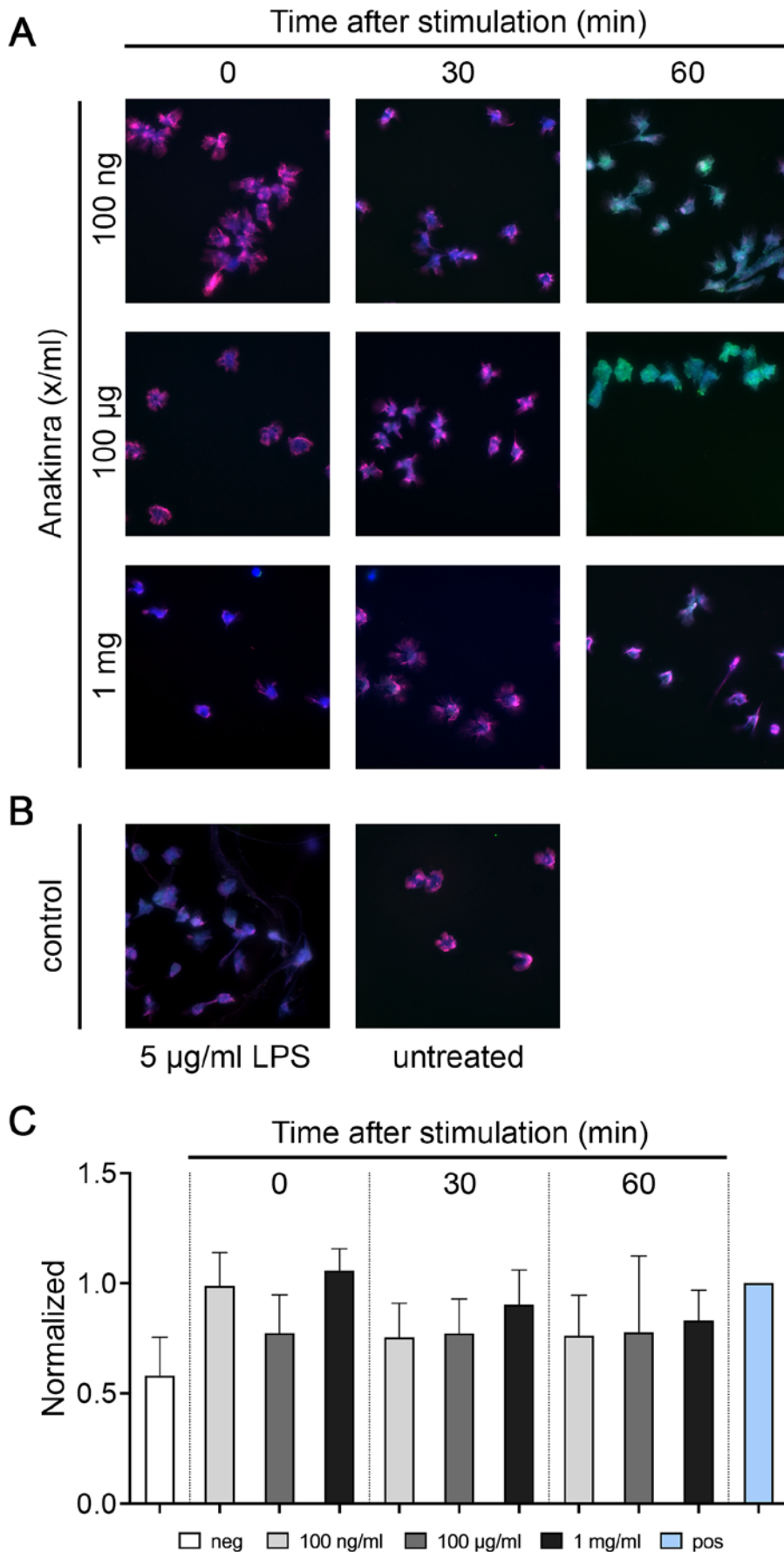
Supplementary Fig. 1. Immunofluorescence staining of anakinra pretreated and LPS-stimulated neutrophils. Cells were pretreated with anakinra (100 ng/ml, 100 µg/ml, 1 mg/ml) for 60, 30 and 10 minutes before stimulation with 5 µg/ml LPS (*E.coli* O55:B5) for 3 hours (A). DNA was stained with DAPI (blue), NE (pink/AF 647) and MPO (green/FitC). Positive control: Cells were not pretreated with anakinra and stimulated with 5 µg/ml LPS (*E.coli* O55:B5) for 3 hours negative control cells did not receive any treatment (B). Graphics show averages ± SD of mean gray value of signal per area of five images per well performed in triplicate and analyzed with ImageJ software (C). DNA and markers were stained as described before and imaged at a magnification of 40×



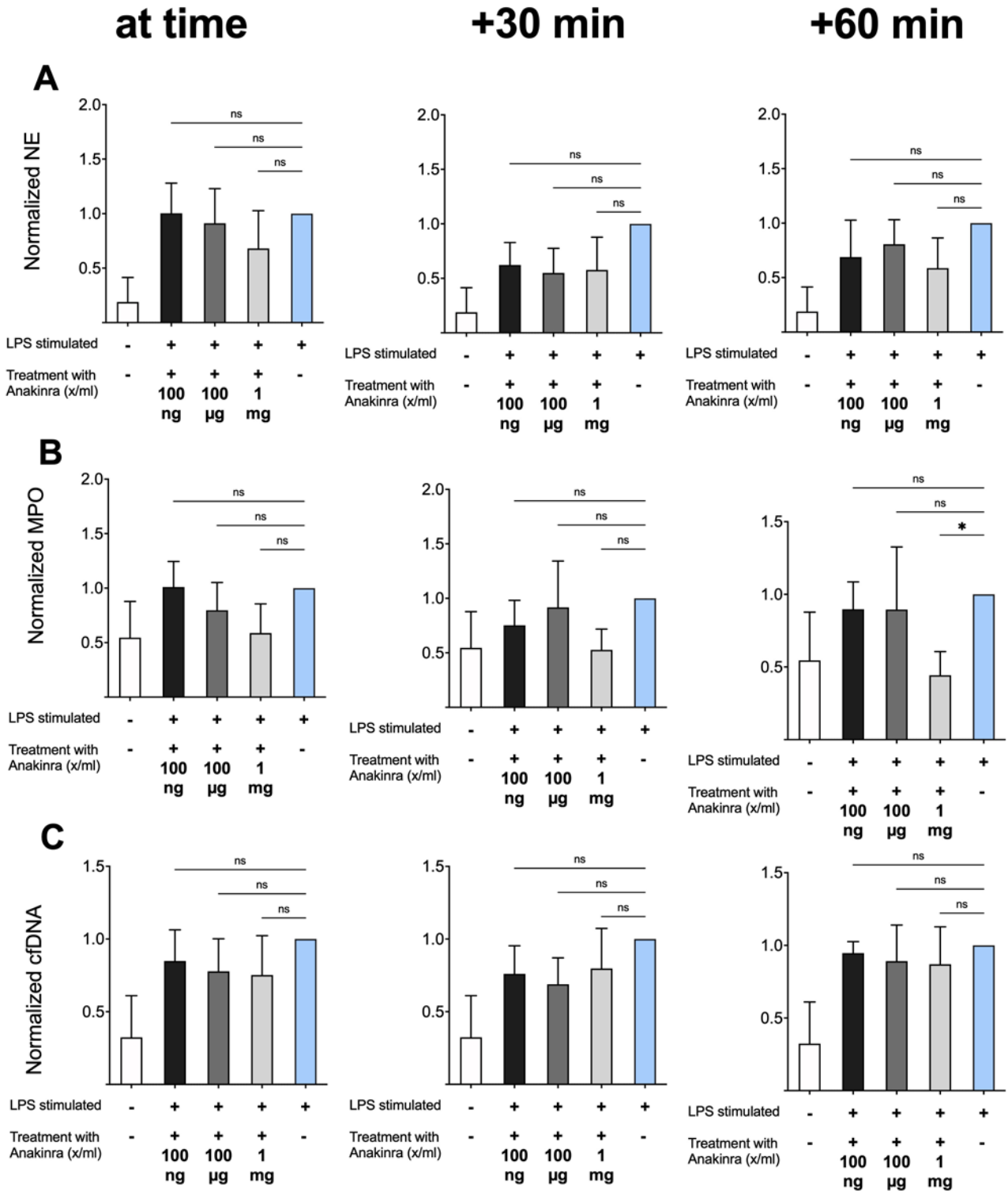
Supplementary Fig. 2. Changes of markers of NET formation in anakinra pretreated and LPS-stimulated neutrophils. Cells were pretreated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml for 60, 30 and 10 minutes. Afterwards, cells were stimulated with LPS 5 µg/ml LPS (E.coli O55:B5) to induce NET formation. LPS stimulation was performed for a total of 3 hours to induce NET formation. Normalized data for NE activity are shown (A), normalized data for MPO activity are shown (B) and results for normalized cfDNA are shown (C). All data are values of absorbance/fluorescence normalized to LPS-stimulated controls



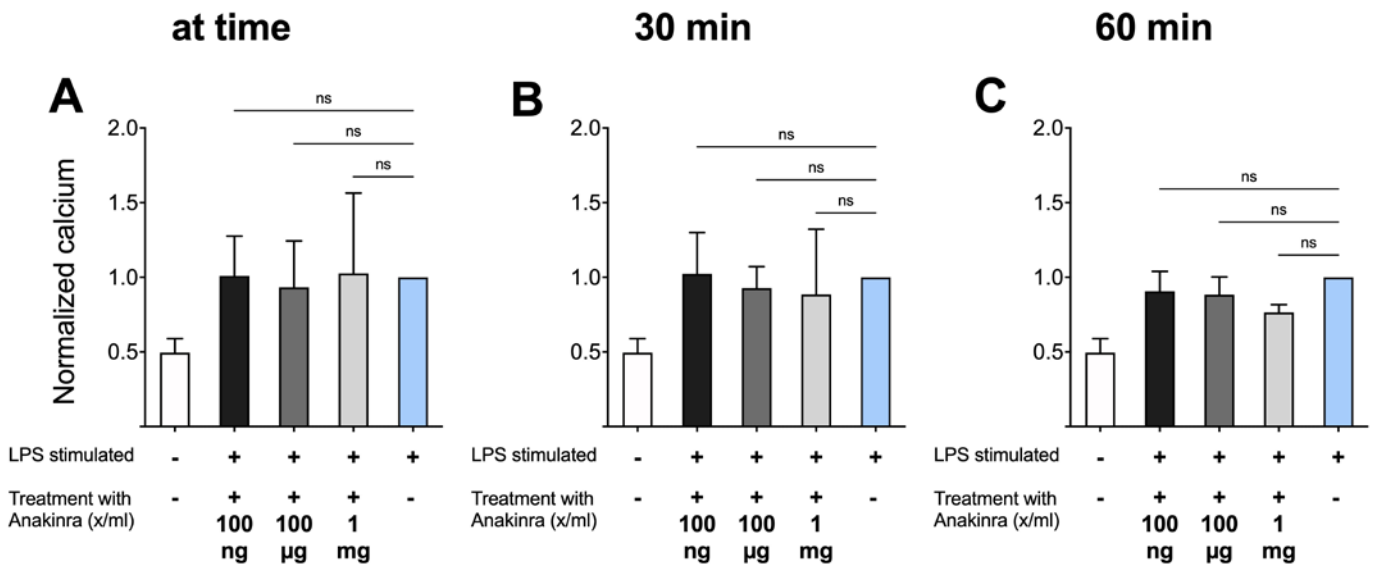
Supplementary Fig. 3. Calcium influx in anakinra pretreated and LPS-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml for 60 (A), 30 (B) and 10 minutes (C). Afterwards, cells were stimulated with LPS 5 µg/ml (E.coli O55:B5) to induce NET formation. After stimulation with LPS calcium influx was measured. LPS stimulation was performed for a total of 3 hours. All data are normalized values of fluorescence to LPS-stimulated controls



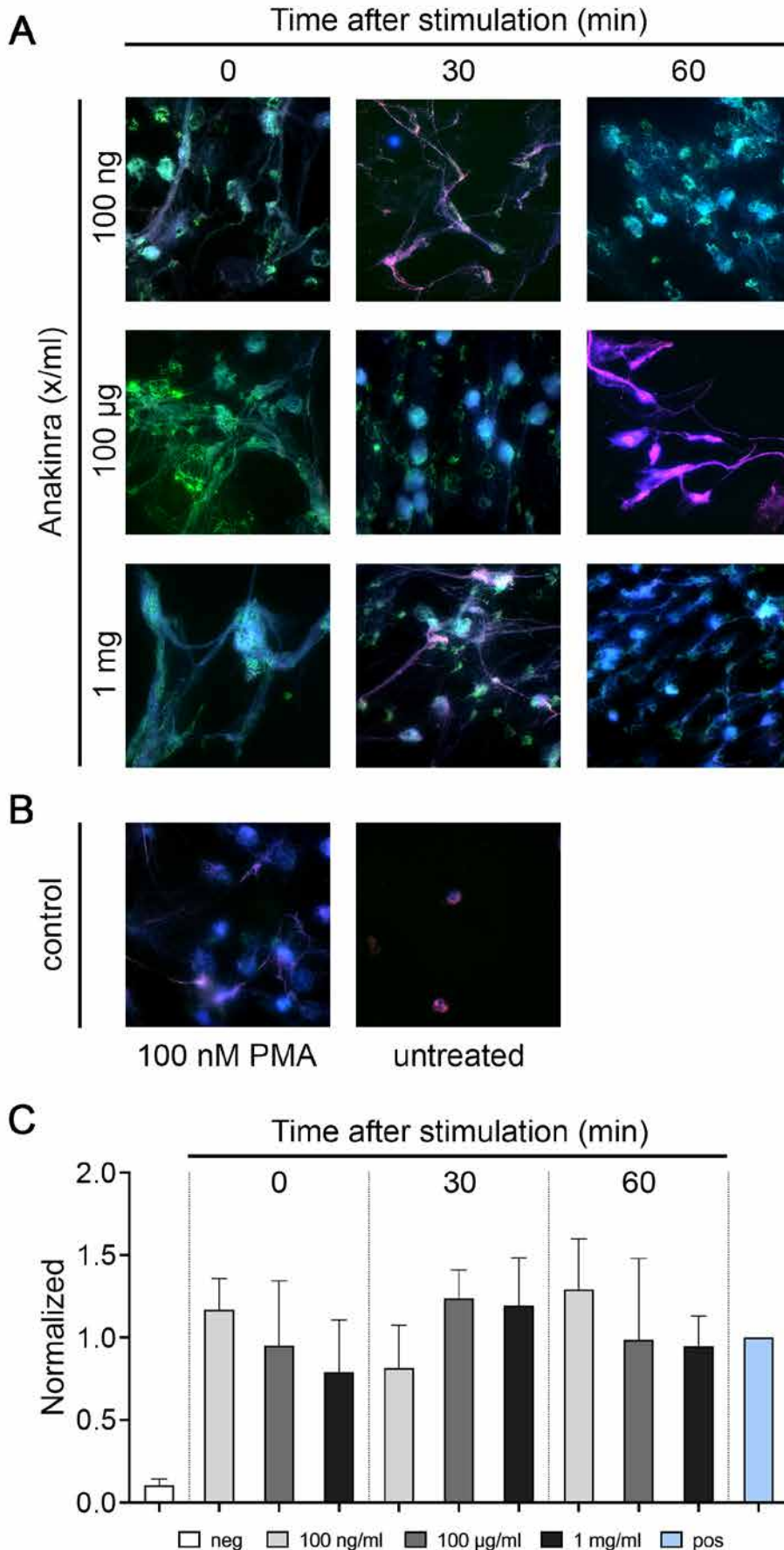
Supplementary Fig. 4. Immunofluorescence staining of anakinra treated and LPS-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at time, 30 minutes and 60 minutes after stimulation with 5 µg/ml LPS (*E.coli* O55:B5). LPS stimulation was performed for a total 3 hours to induce NET formation (A). DNA was stained with DAPI (blue), NE (pink/AF 647) and MPO (green/FitC). Positive control: Cells were not treated with anakinra and stimulated with 5 µg/ml LPS (*E.coli* O55:B5) for 3 hours (B). DNA and markers were stained as described before and imaged at a magnification of 40×. Graphics show averages ± SD of mean gray value of signal per area of five images per well performed in triplicate and analyzed with ImageJ software (C)



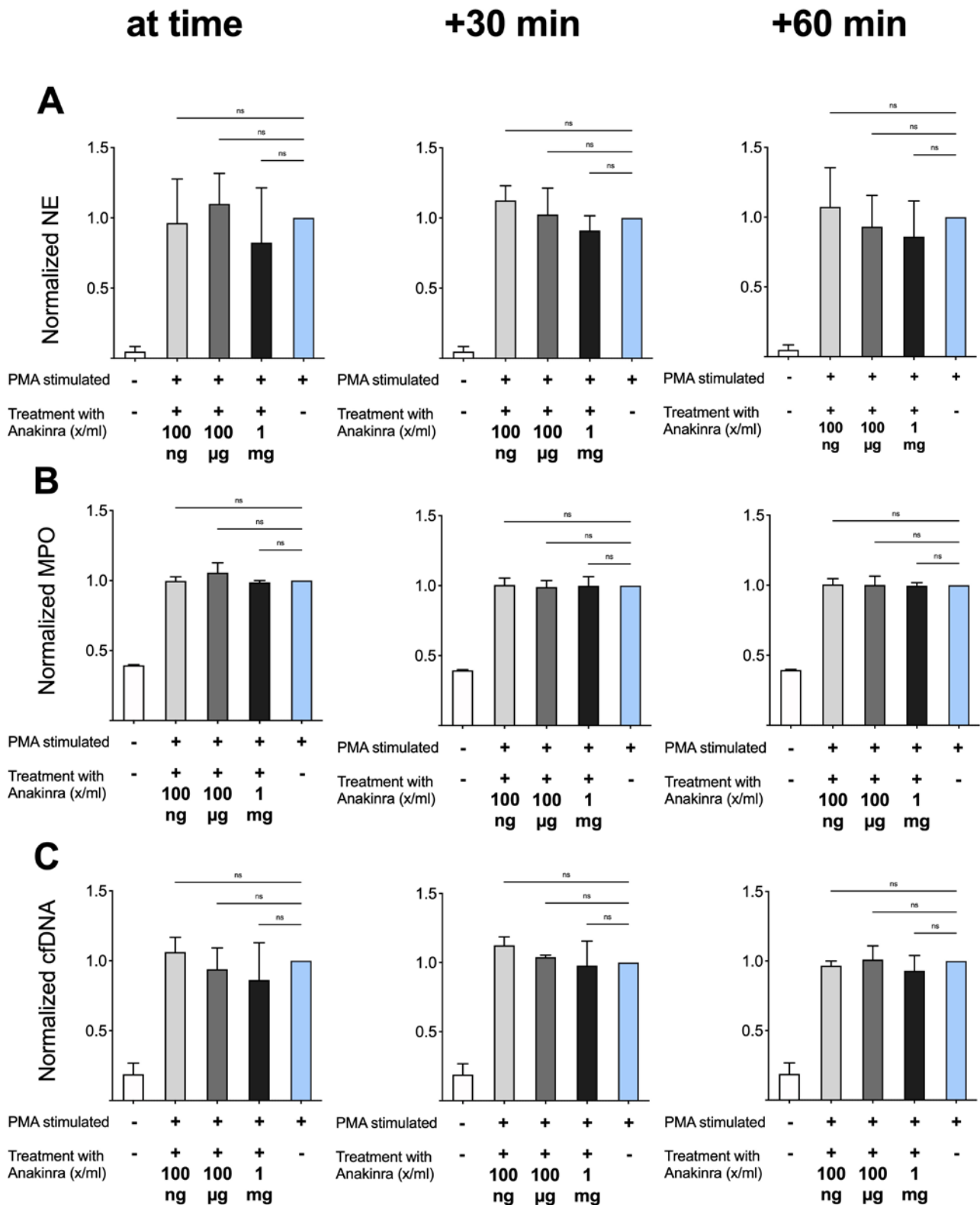
Supplementary Fig. 5. Changes of markers of NET formation in anakinra treated and LPS-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at time, 30 minutes and 60 minutes after stimulation with LPS 5 µg/ml LPS (E.coli O55:B5). LPS stimulation was performed for a total of 3 hours to induce NET formation. Normalized data for NE activity are shown in (A), normalized data for MPO activity are shown in (B) and results for normalized cfDNA are shown in (C). All data are values of absorbance/fluorescence normalized to LPS-stimulated controls



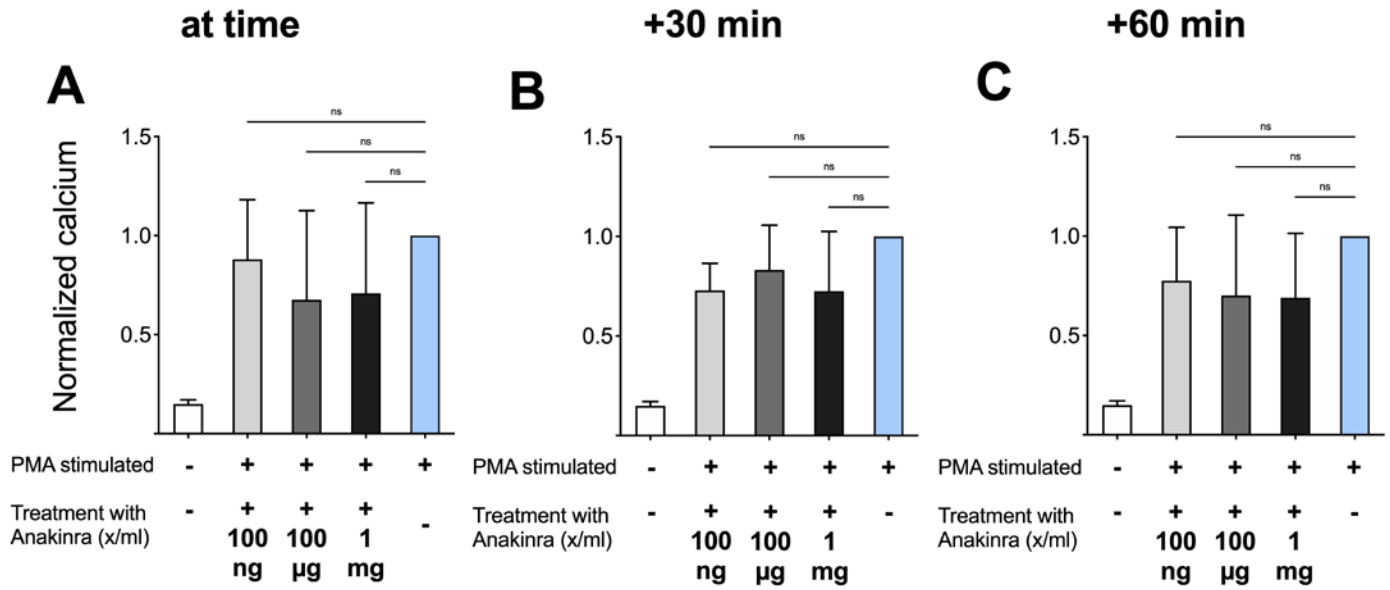
Supplementary Fig. 6. Calcium influx in anakinra treated and LPS-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at time (A), 30 minutes (B) and 60 minutes (C) after stimulation with 5 µg/ml LPS (*E.coli* O55:B5) and calcium influx was measured. LPS stimulation was performed for a total of 3 hours to induce NET formation. All data are values of fluorescence normalized to LPS-stimulated controls



Supplementary Fig. 7. Immunofluorescence staining of anakinra treated and PMA-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at time, 30 minutes and 60 minutes after stimulation with 100 nM PMA. PMA stimulation was performed for a total 3 hours to induce NET formation (A). DNA was stained with DAPI (blue), NE (pink/AF 647) and MPO (green/FitC). Positive control: Cells were not treated with anakinra and stimulated with 100 nM PMA for 3 hours (B). Graphics show averages ± SD of mean gray value of signal per area of five images per well performed in triplicate and analyzed with the ImageJ software (C). DNA and markers were stained as described before and imaged at a magnification of 40×



Supplementary Fig. 8. Changes of markers of NET formation in anakinra treated and PMA-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at time, 30 minutes and 60 minutes after stimulation with 100 nM PMA. PMA stimulation was performed for a total of 3 hours to induce NET formation. Normalized data for NE activity are shown in (A), normalized data for MPO activity are shown in (B) and results for normalized cfDNA are shown in (C). All data are values of absorbance/fluorescence normalized to PMA-stimulated controls



Supplementary Fig. 9. Calcium influx in anakinra treated and PMA-stimulated neutrophils. Cells were treated with anakinra in concentrations of 100 ng/ml, 100 µg/ml and 1 mg/ml at the time of (A), 30 minutes (B) and 60 minutes (C) after stimulation with 100 nM PMA and calcium influx was measured. PMA stimulation was performed for a total of 3 hours to induce NET formation. All data are values of fluorescence normalized to PMA-stimulated controls