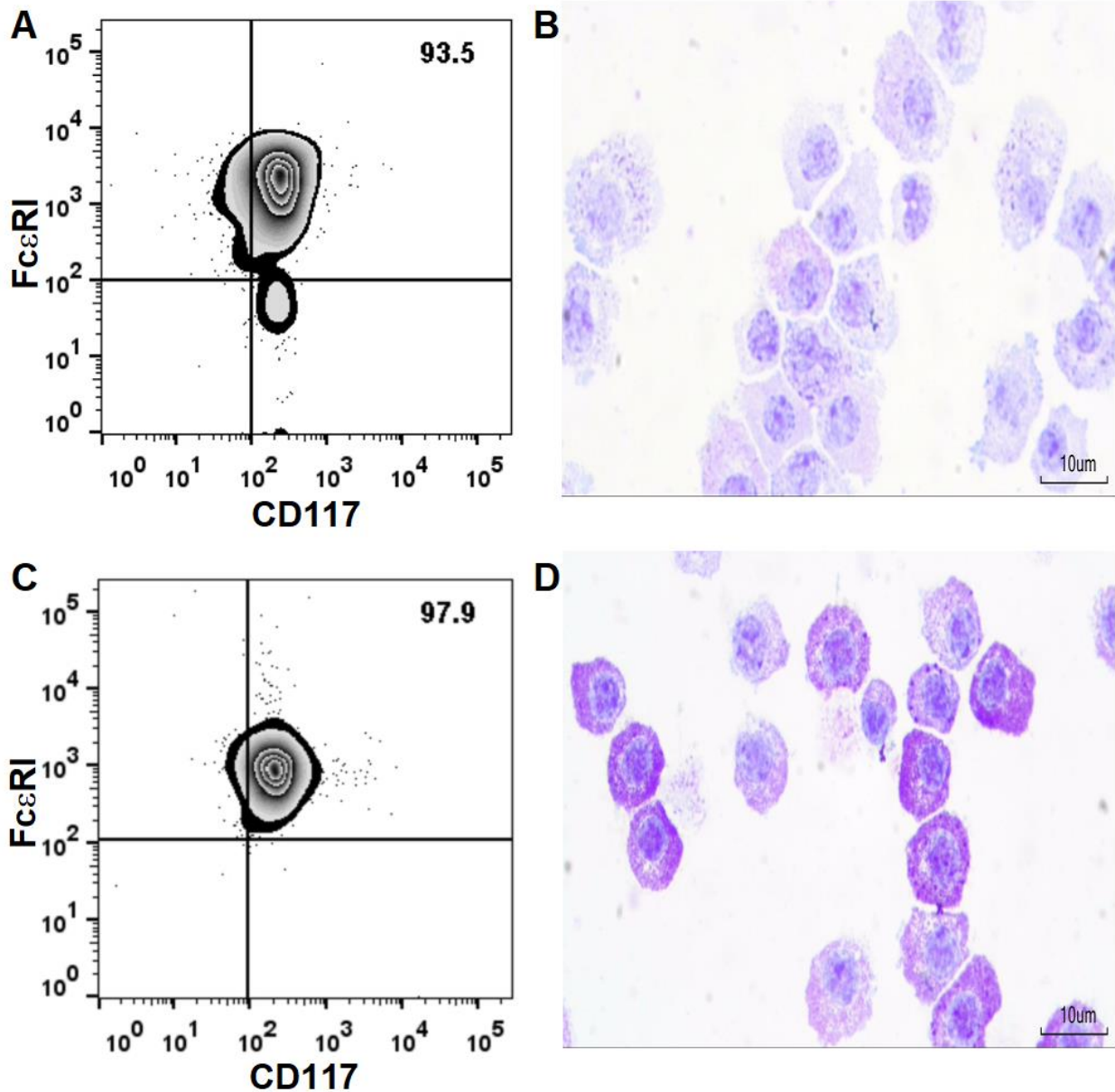
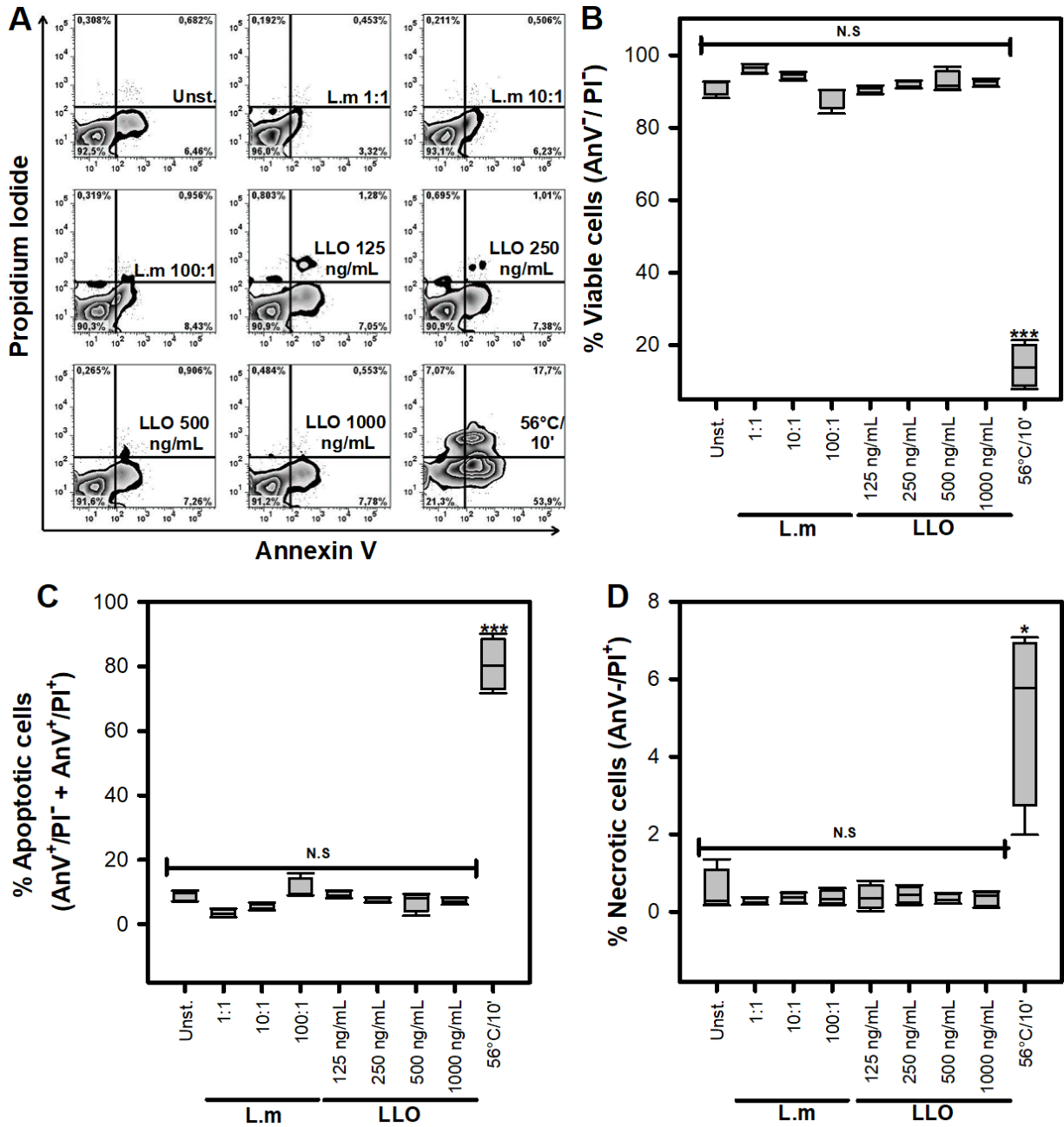


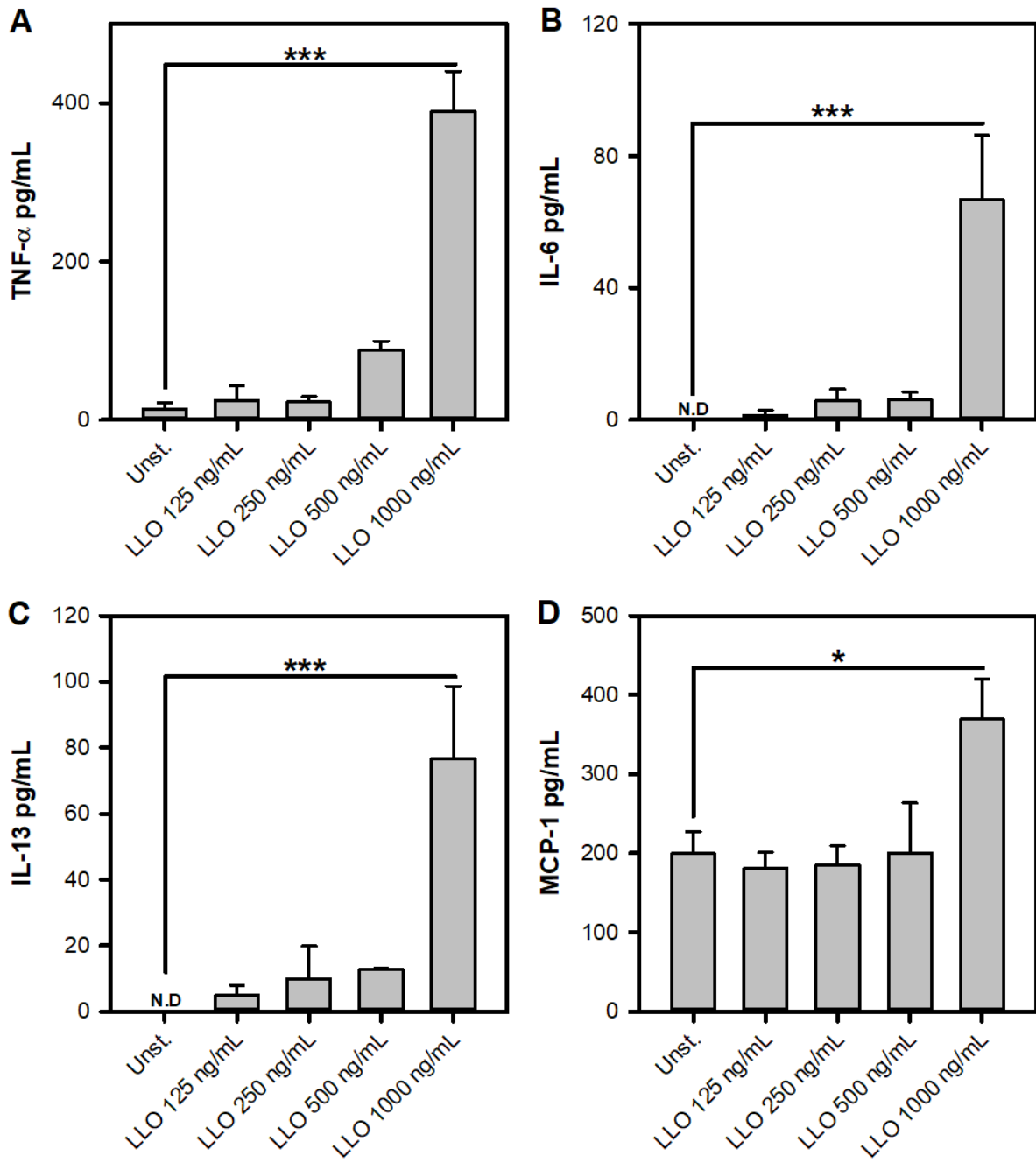
Supplementary Material



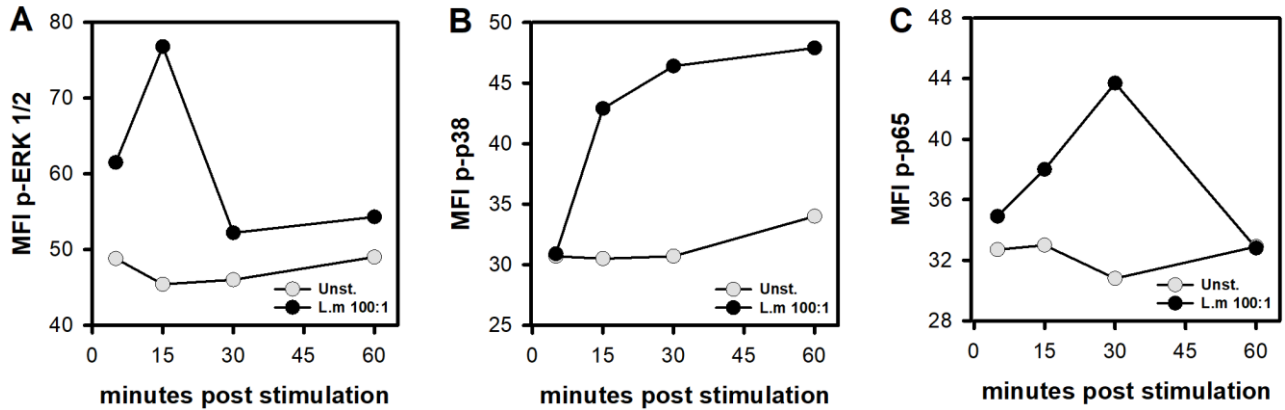
Supplementary Figure 1. Characterization of primary cultures of bone marrow and peritoneum-derived mast cells. Representative flow cytometry zebra plot of (A) bone marrow-derived mast cells (BMMC) and (C) peritoneum-derived mast cells (PMC). The percentage of FcεRI+CD117+ is shown. BMMC (B) and PMC (D) were stained with toluidine blue and analyzed by light microscopy. bar= 10 μm



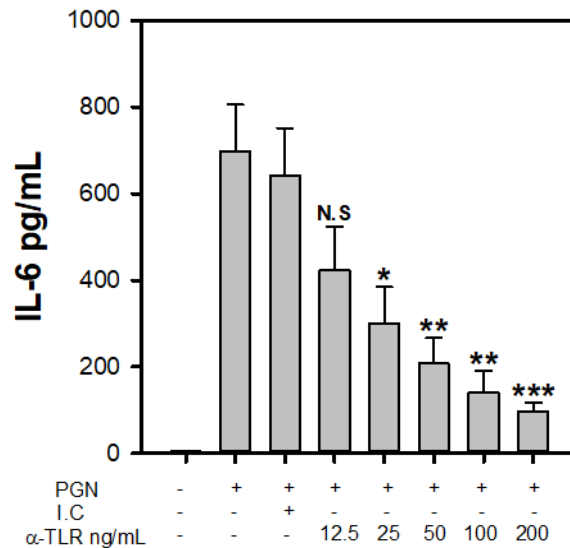
Supplementary Figure 2. Effect of *Listeria monocytogenes* and Listeriolysin-O on the viability of mast cells. 2×10^5 BMDC were stimulated with L.m (MOI 1:1, 10:1 and 100:1) or LLO (125, 250, 500 and 1000 ng/mL) for 24 h. Cell viability was determined with Annexin V and propidium iodide (PI) staining and measured by flow cytometry. (A) Representative zebra-plots of BMDC stained with Annexin V and PI. (B) Percentage of viable cells (Annexin V⁻/PI⁻). (C) Percentage of total apoptotic cells represented as the sum of the percentage of early apoptotic cells (Annexin V⁺/PI⁻) and the percentage of late apoptotic cells (Annexin V⁺/PI⁺). (D) Percentage of necrotic cells (Annexin V⁻/PI⁺). (Sum of 4 independent experiments, n=4 per group; *p<0.05; ***p<0.001; N.S.= Not Significance; comparisons were performed against unstimulated cells (Unst.). Kruskal-Wallis test).



Supplementary Figure 3. Listeriolysin-O induces *de novo* synthesis of cytokines by mast cells. 2.5×10^5 BMMC/ 0.25 mL of complete medium were stimulated with LLO for 24 h at the concentrations indicated. Cytokine levels were evaluated in culture supernatants by ELISA. (A) TNF- α , (B) IL-6, (C) IL-13 and (D) MCP-1. (Sum of 4 independent experiments, n=4 per group and for each mediator; *p<0.05; ***p<0.001; N.D= Not detected; One Way ANOVA test).



Supplementary Figure 4. Kinetic of protein phosphorylation in response to *Listeria monocytogenes* in mast cells. 2.5×10^5 BMMC/0.25 mL of complete medium were stimulated with L.m (MOI 100:1) for different times to determine the phosphorylation of (A) ERK 1/2, (B) p38 and (C) p65 by flow cytometry. The graphs show the median fluorescence intensity (MFI).



Supplementary Figure 5. Efficiency of antibody-mediated TLR2 inhibition. 2.5×10^5 BMMC/0.25 mL of complete medium were pre-incubated with anti-TLR2 at the concentrations indicated for 30 minutes and then were stimulated with *Staphylococcus aureus* peptidoglycan (PGN) at 10 μ g/mL for 24 h. IL-6 level was evaluated in culture supernatants by ELISA. (Sum of 4 independent experiments, n=4 per group; *p<0.05; **p<0.01; ***p<0.001; N.S= Not Significance; comparisons were performed against cells stimulated with PGN and treated with Isotype Control (I.C). One Way ANOVA test).