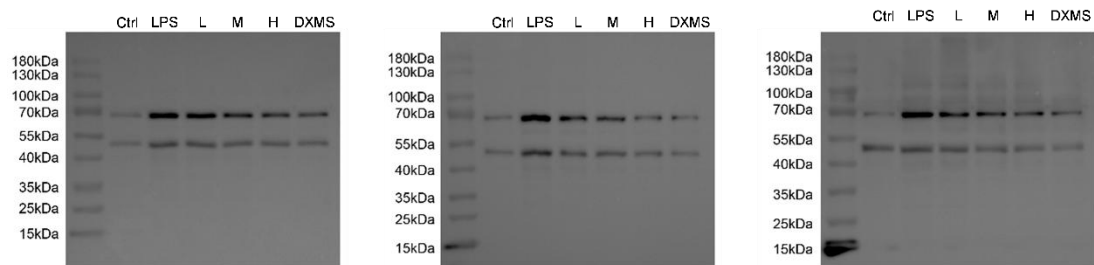
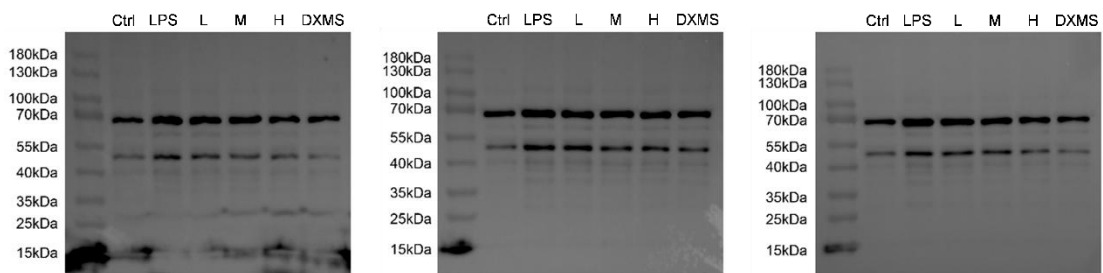


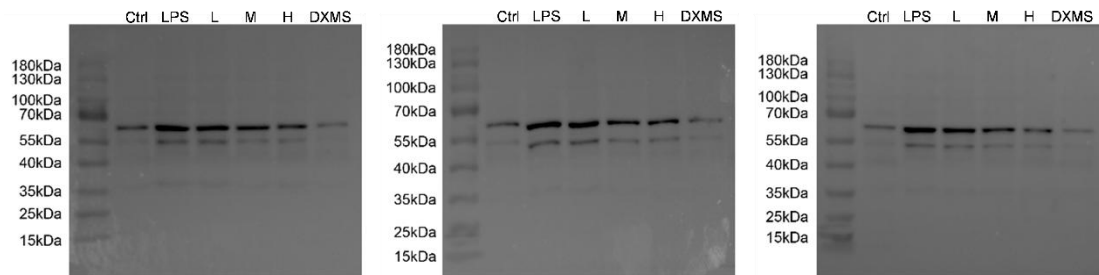
Supplementary Figure 1 Representative western blots showing TLR4 expression in A549 cells. Quantification was performed using data pooled from three independent biological replicates ($n = 3$). Data are presented as mean $\pm$ SEM.



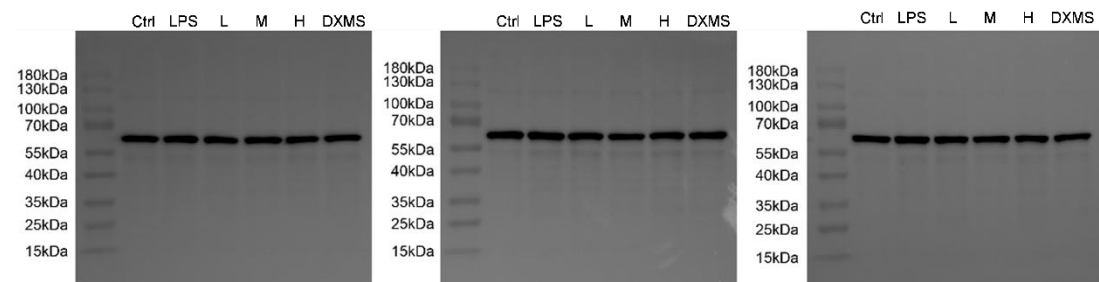
Supplementary Figure 2 Representative western blots showing p-P65 expression in A549 cells. Quantification was performed using data pooled from three independent biological replicates ($n = 3$). Data are presented as mean $\pm$ SEM.



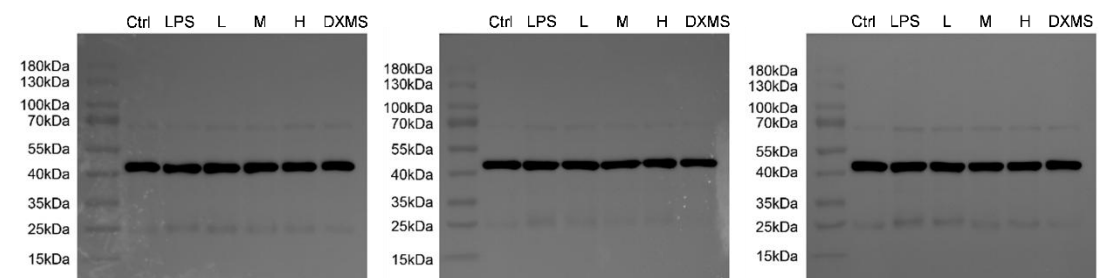
Supplementary Figure 3 Representative western blots showing P65 expression in A549 cells. Quantification was performed using data pooled from three independent biological replicates ($n = 3$). Data are presented as mean $\pm$ SEM.



Supplementary Figure 4 Representative western blots showing p-AKT expression in A549 cells. Quantification was performed using data pooled from three independent biological replicates ($n = 3$). Data are presented as mean $\pm$ SEM.



Supplementary Figure 5 Representative western blots showing AKT expression in A549 cells. Quantification was performed using data pooled from three independent biological replicates ($n = 3$). Data are presented as mean $\pm$ SEM.



Supplementary Figure 6 Representative western blots showing β -actin expression in A549 cells. β -actin and the target protein were probed on separate membranes processed in parallel. The same set of lysates was used with equal protein loading for both membranes, and all samples were run under identical conditions. Loading controls were run on the same blot as the target protein where possible.