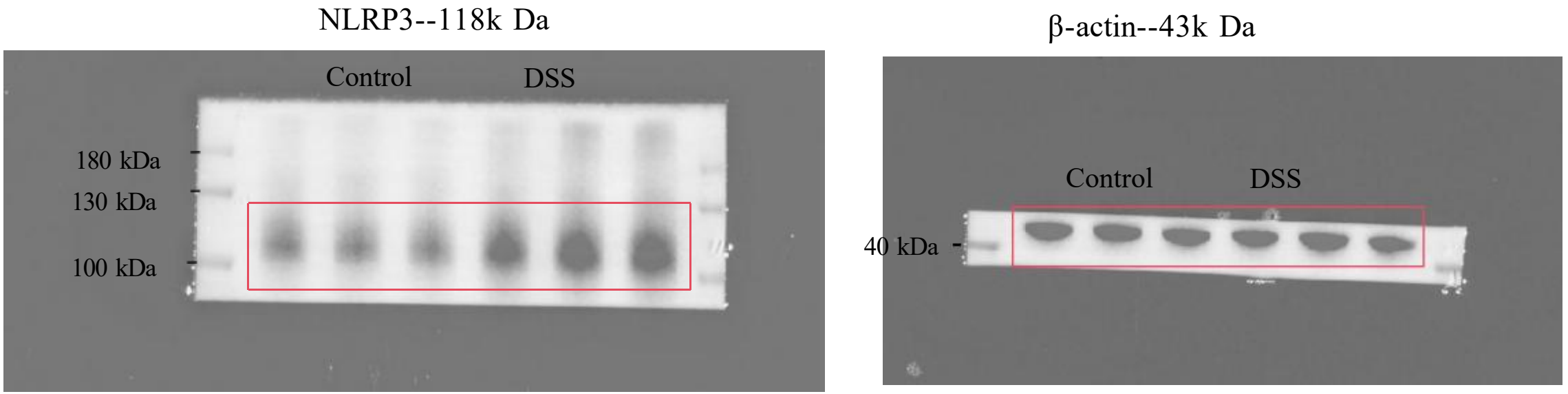
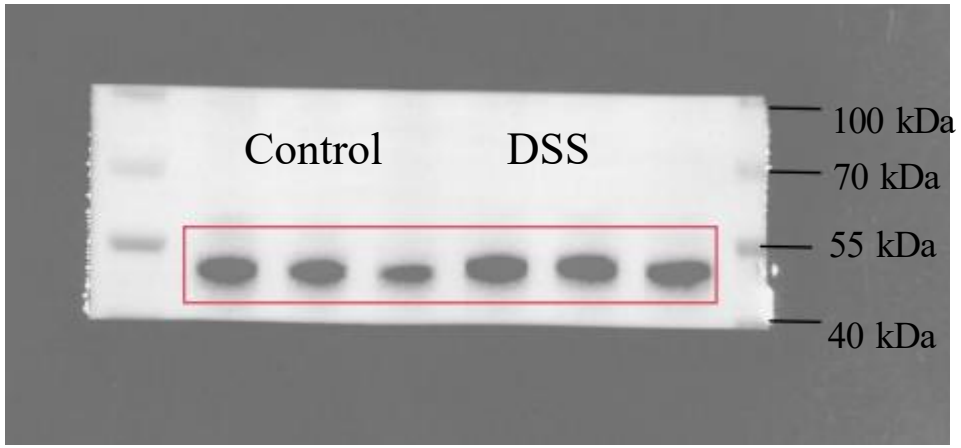
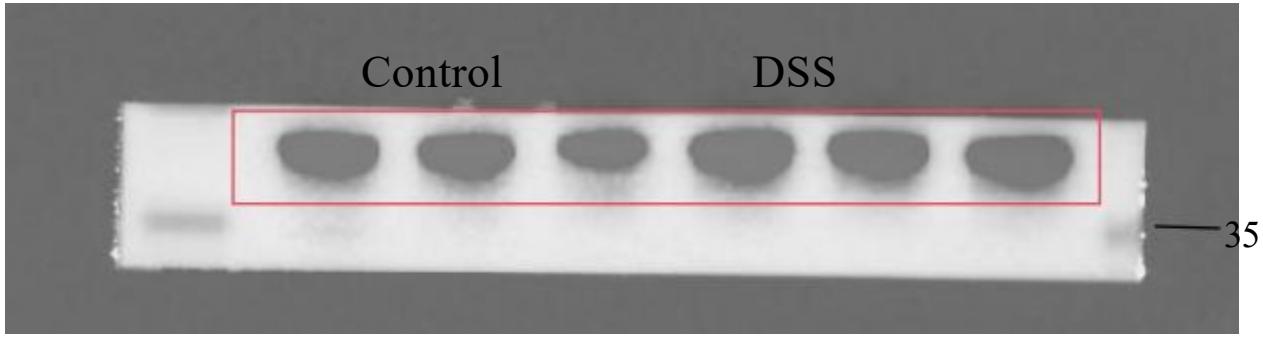


Figure S1. The original western blot images of NLRP3 (Figure1).(Wanleibio, WL02635; 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

Pro-Caspase1--45 kDa



GAPDH--37k Da



Cleaved-Caspase1--20 kDa

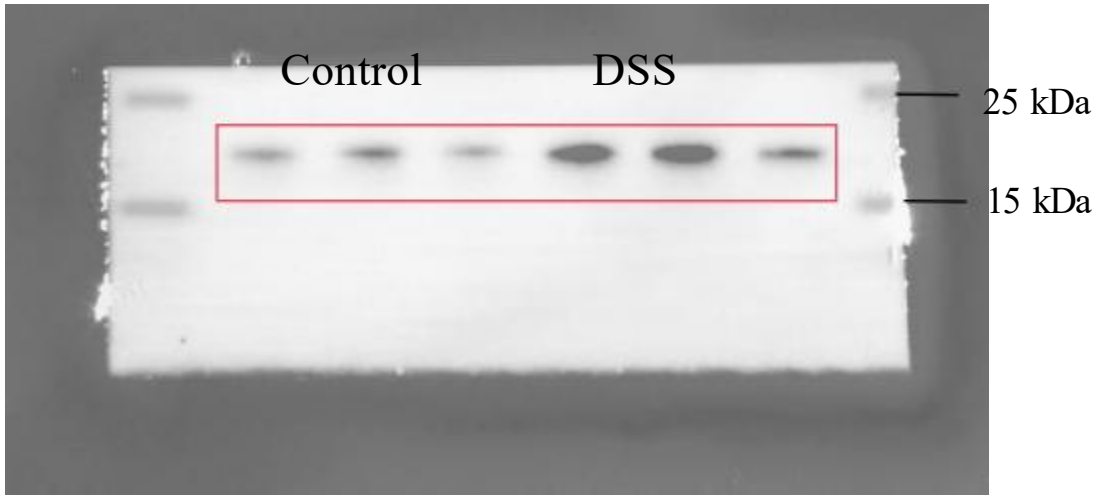


Figure S2. The original western blot images of Pro-Caspase1 and Cle-Caspase1(Figure1).(Cell Signaling Technology, #2225, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein GAPDH (Abcam, ab181602) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

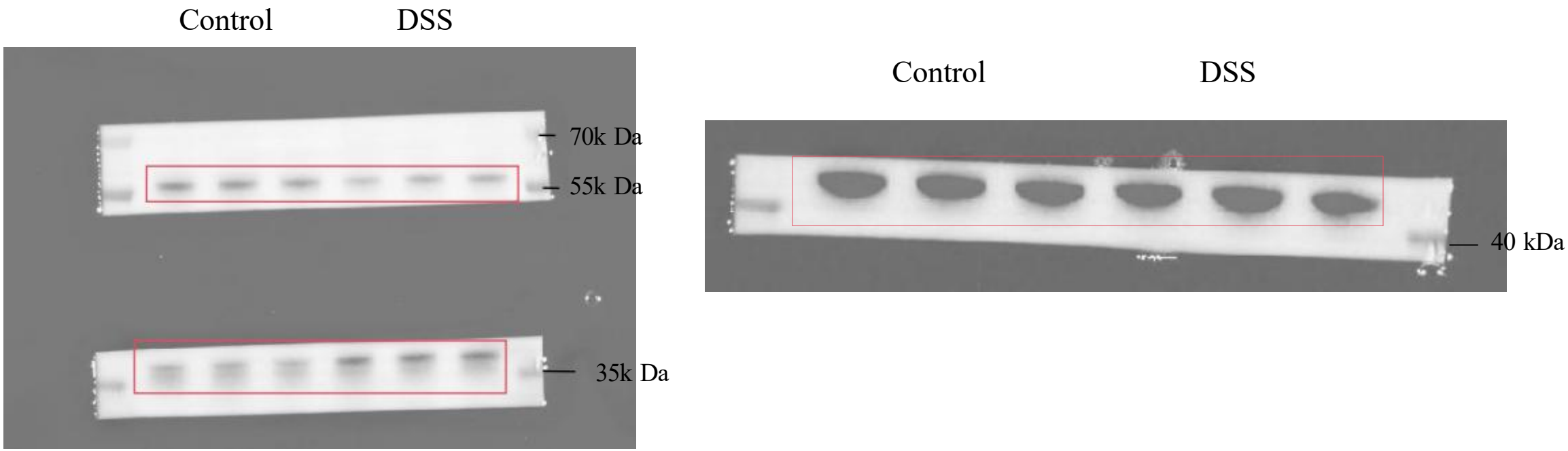


Figure S3. The original western blot images of Full-GSDMD and Cle-GSDMD (Figure1).(Abcam, ab219800, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

IL18-17k Da / 22k Da

β-actin--43k Da

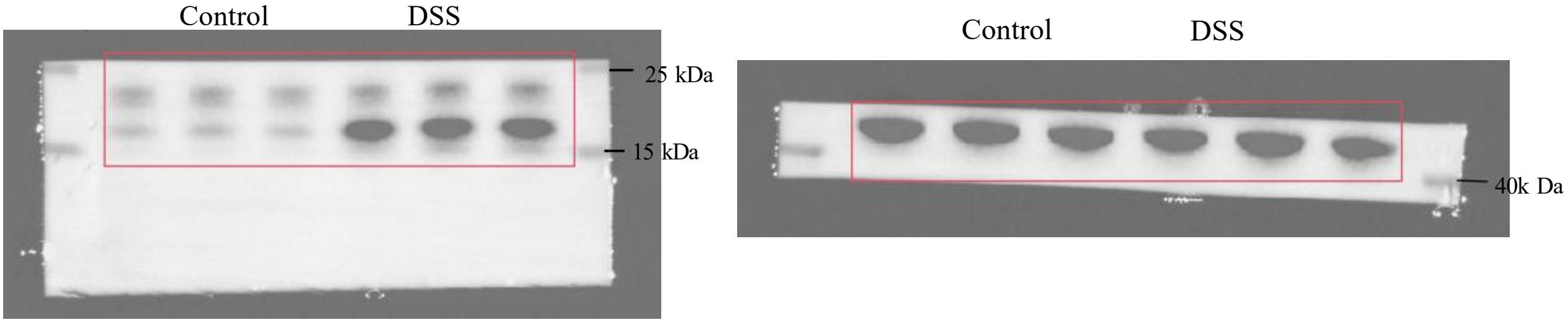


Figure S4. The original western blot images of IL18 (Figure1).(Cell Signaling Technology, #57058, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

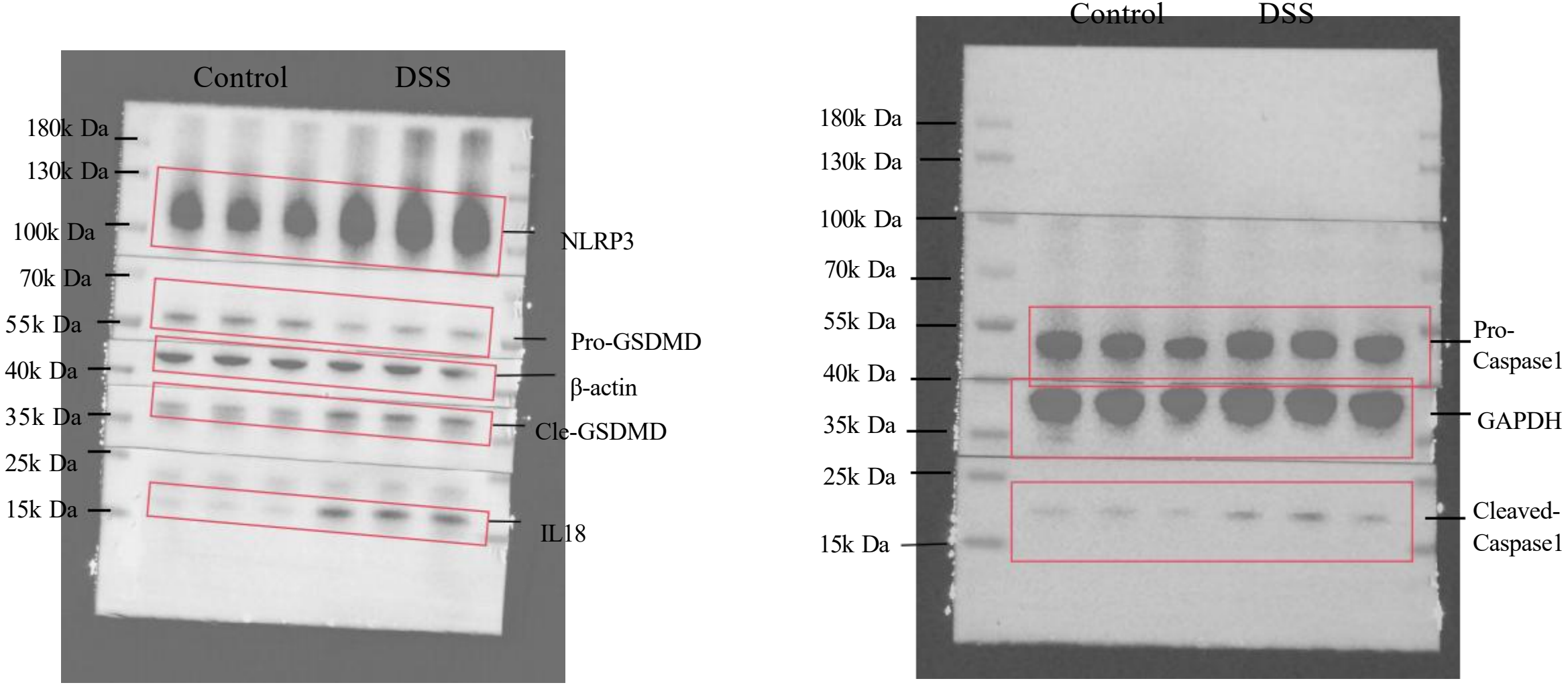
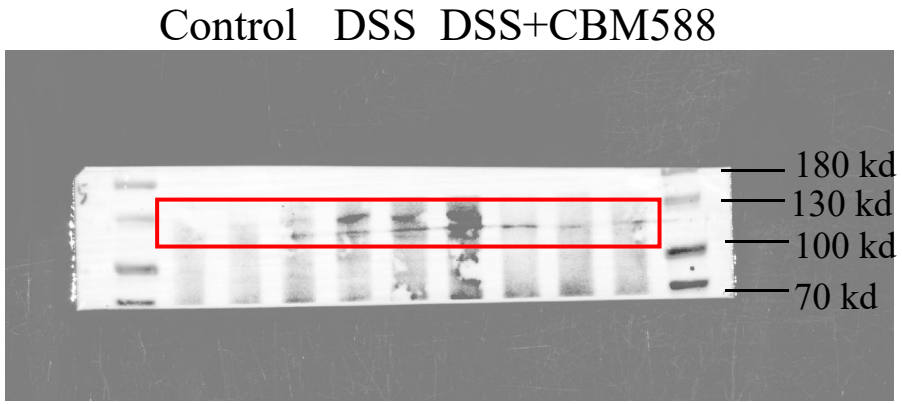


Figure S5. The images display the complete scanned membranes for NLRP3, Pro-GSDMD, β-actin, Cleaved-GSDMD, IL-18, Pro-Caspase1, GAPDH, and Cleaved-Caspase1 (Figure1). Molecular weight markers (kDa) are indicated on the left and right sides of each membrane. To allow for the simultaneous detection of proteins with different molecular weights, the membranes were physically excised prior to antibody incubation and then reassembled for imaging. Each specific antigen was analyzed in triplicate. The images represent the original scans, and the edges of the membrane sections are clearly visible.

NLRP3--110k Da



β-actin--43k Da

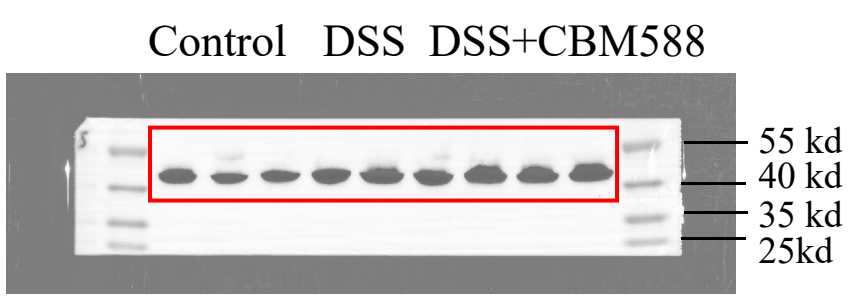
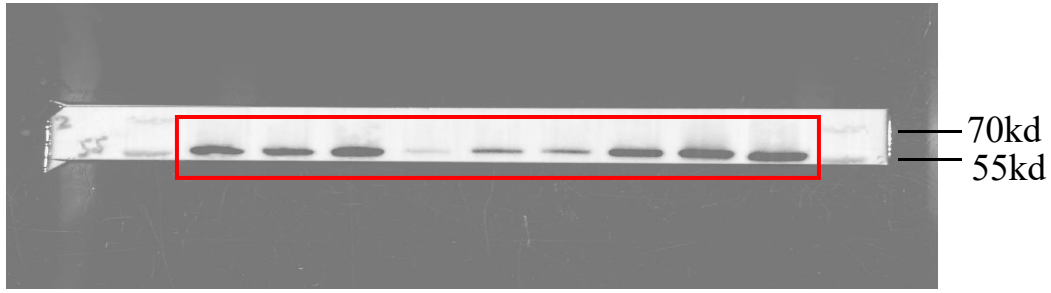


Figure S6. The original western blot images of NLRP3 (Figure 4).(Cell Signaling Technology, #15101; 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

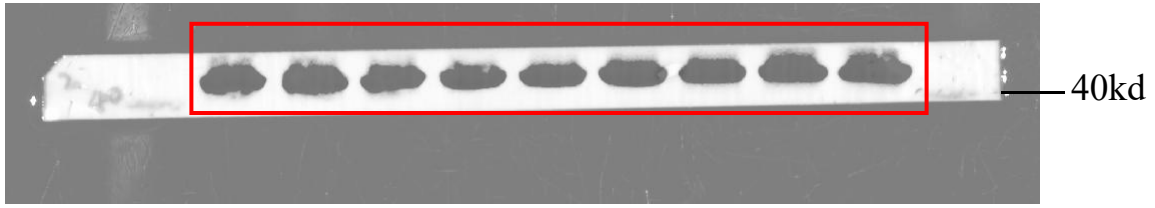
Full-length -GSDMD 55k Da;

Control DSS DSS+CBM588



β-actin--43k Da

Control DSS DSS+CBM588



Cleaved GSDMD 35k Da

Control DSS DSS+CBM588

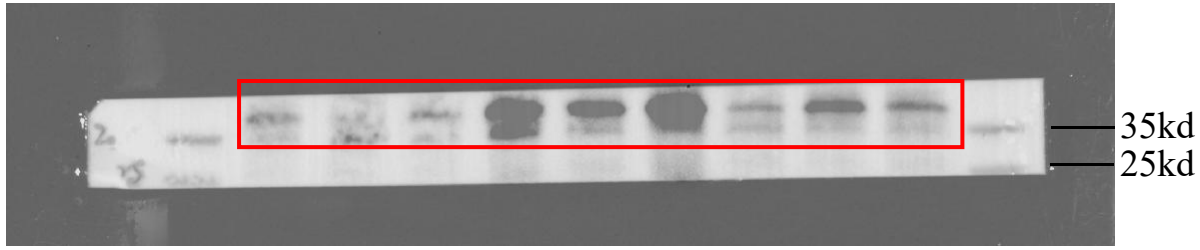
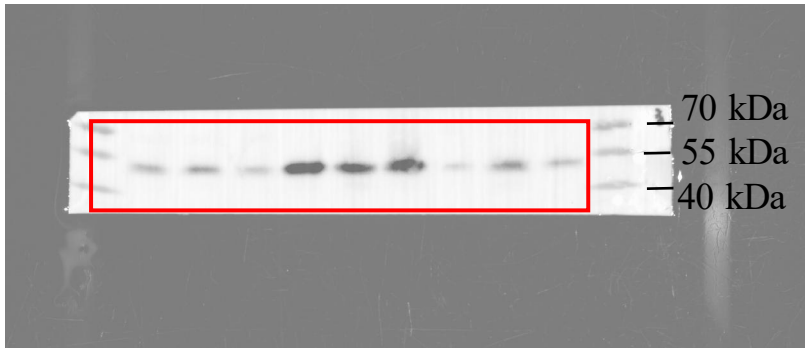
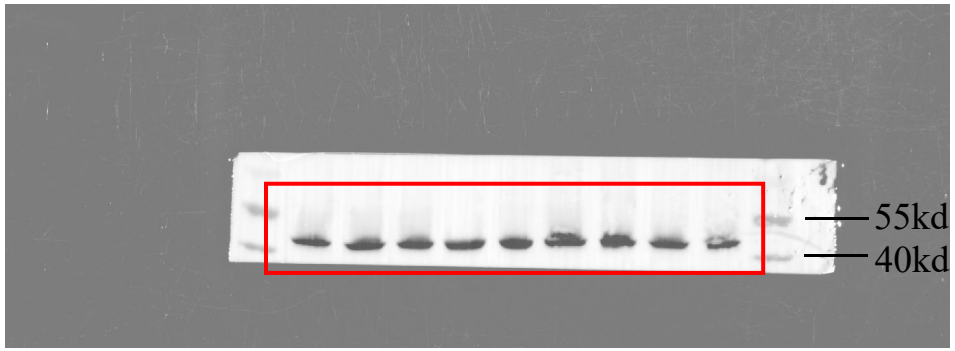


Figure S7. The original western blot images of Pro-GSDMD and Cle-GSDMD (Figure 4).(Abcam, ab219800, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

Pro-Caspase1--45 kDa



β-actin--43k Da



Cleaved-Caspase1--10 kDa

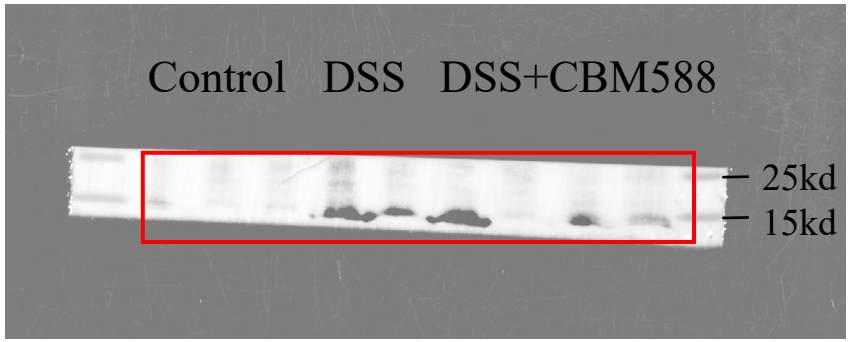
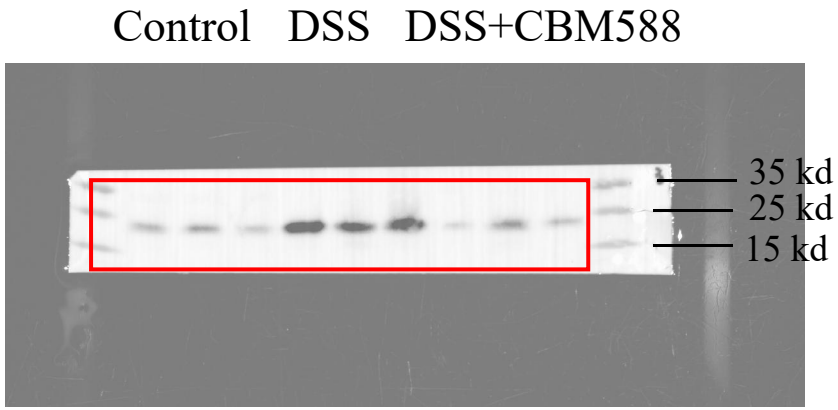


Figure S8. The original western blot images of Pro-Caspase1 and Cle-Caspase1(Figure 4).(Abcam, ab179515, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

IL18-17k Da / 22k Da



β-actin--43k Da

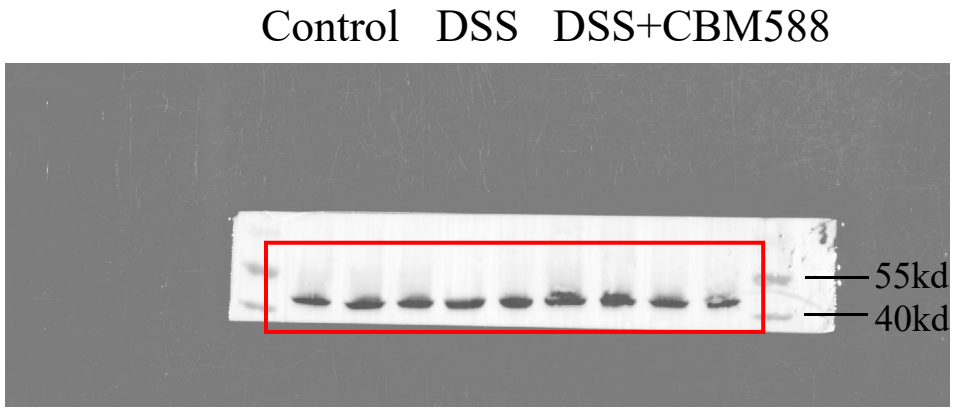


Figure S9. The original western blot images of IL18 (Figure 4).(Cell Signaling Technology, #57058, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

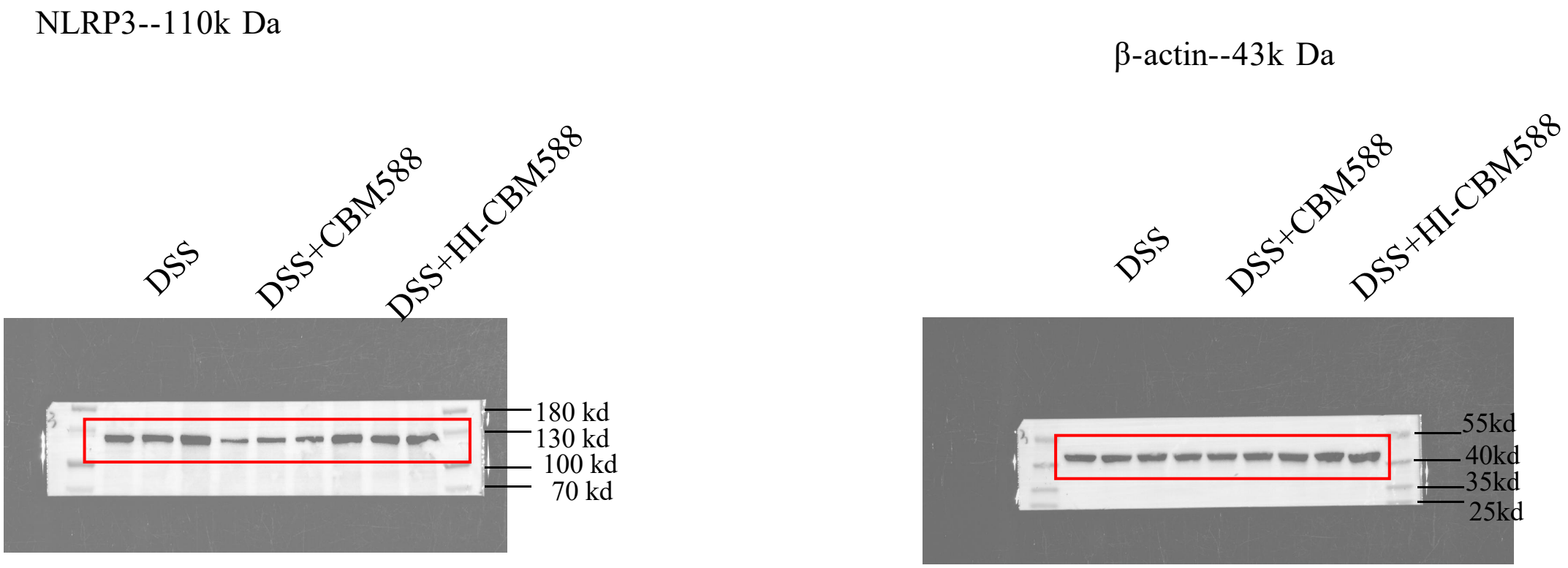
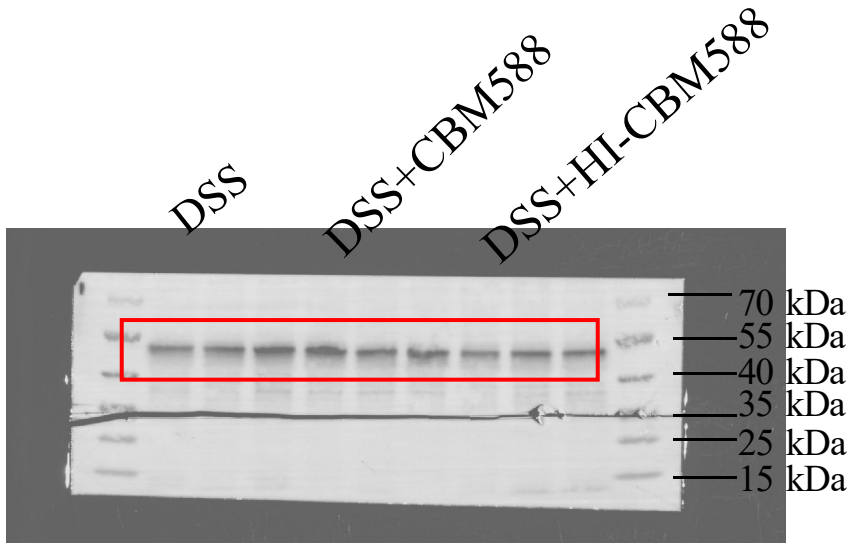
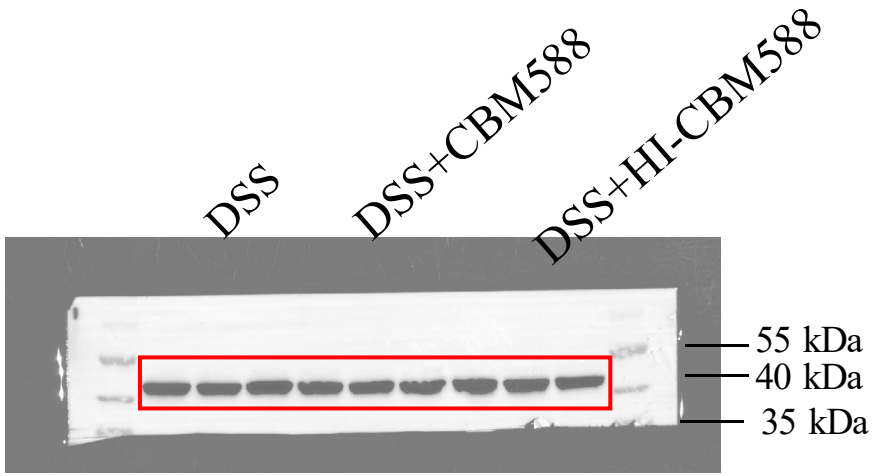


Figure S10. The original western blot images of NLRP3 (Figure 5).(Cell Signaling Technology, #15101; 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

Pro-Caspase1--45 kDa



β-actin--43k Da



Cleaved-Caspase1--45 kDa

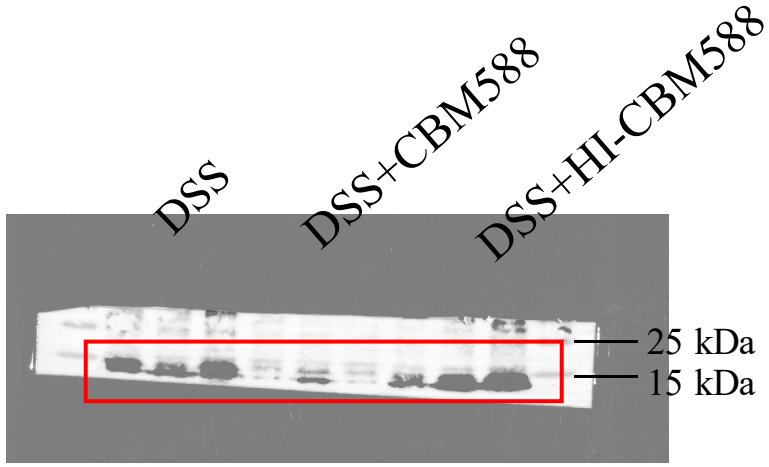


Figure S11. The original western blot images of Pro-Caspase1 and Cle-Caspase1(Figure 5).(Abcam, ab179515, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

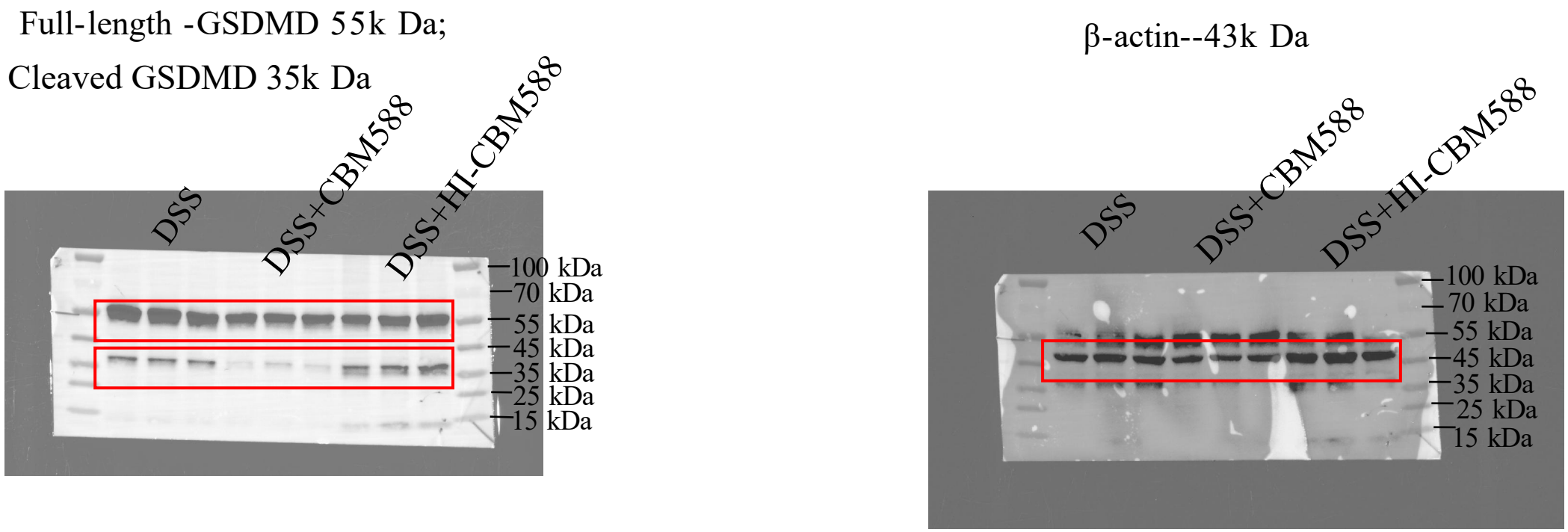


Figure S12. The original western blot images of Pro-GSDMD and Cle-GSDMD (Figure 5).(Abcam, ab219800, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

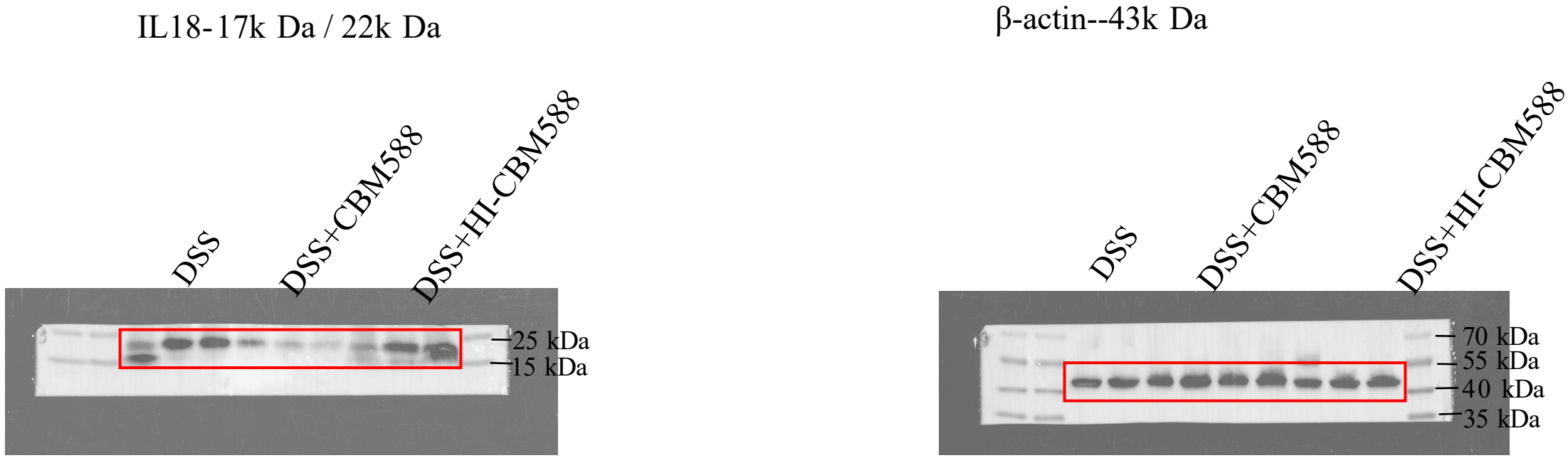


Figure S13. The original western blot images of IL18 (Figure 5).(Cell Signaling Technology, #57058, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

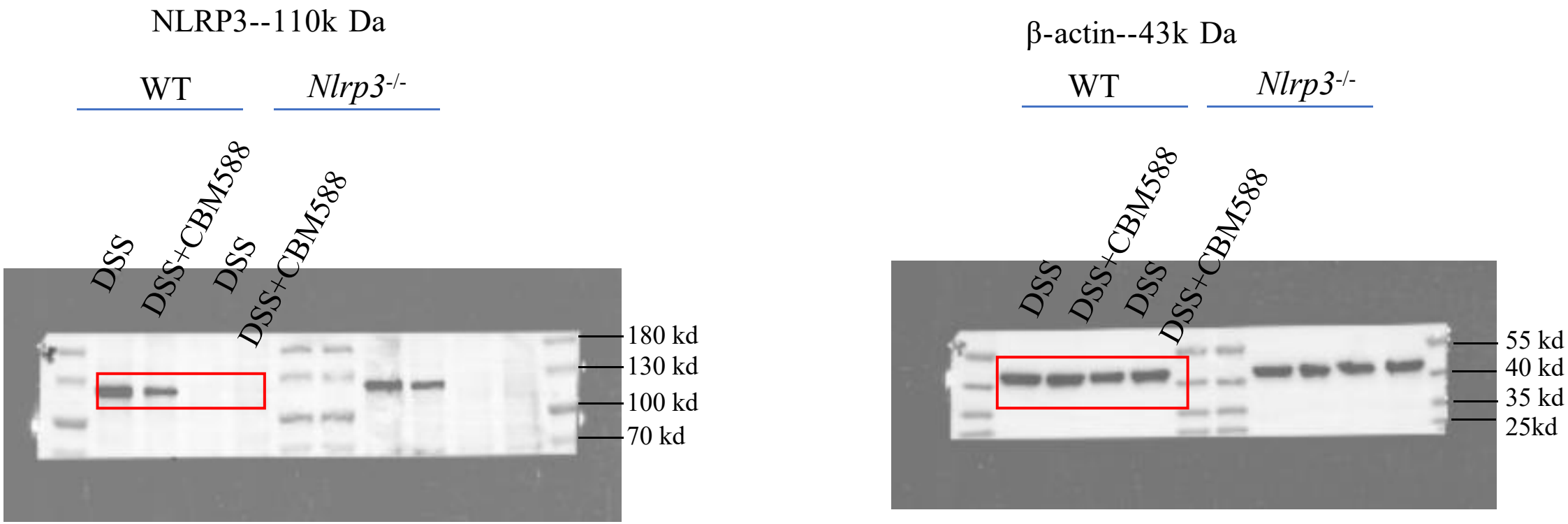


Figure S14. The original western blot images of NLRP3 (Figure 6).(Cell Signaling Technology, #15101; 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

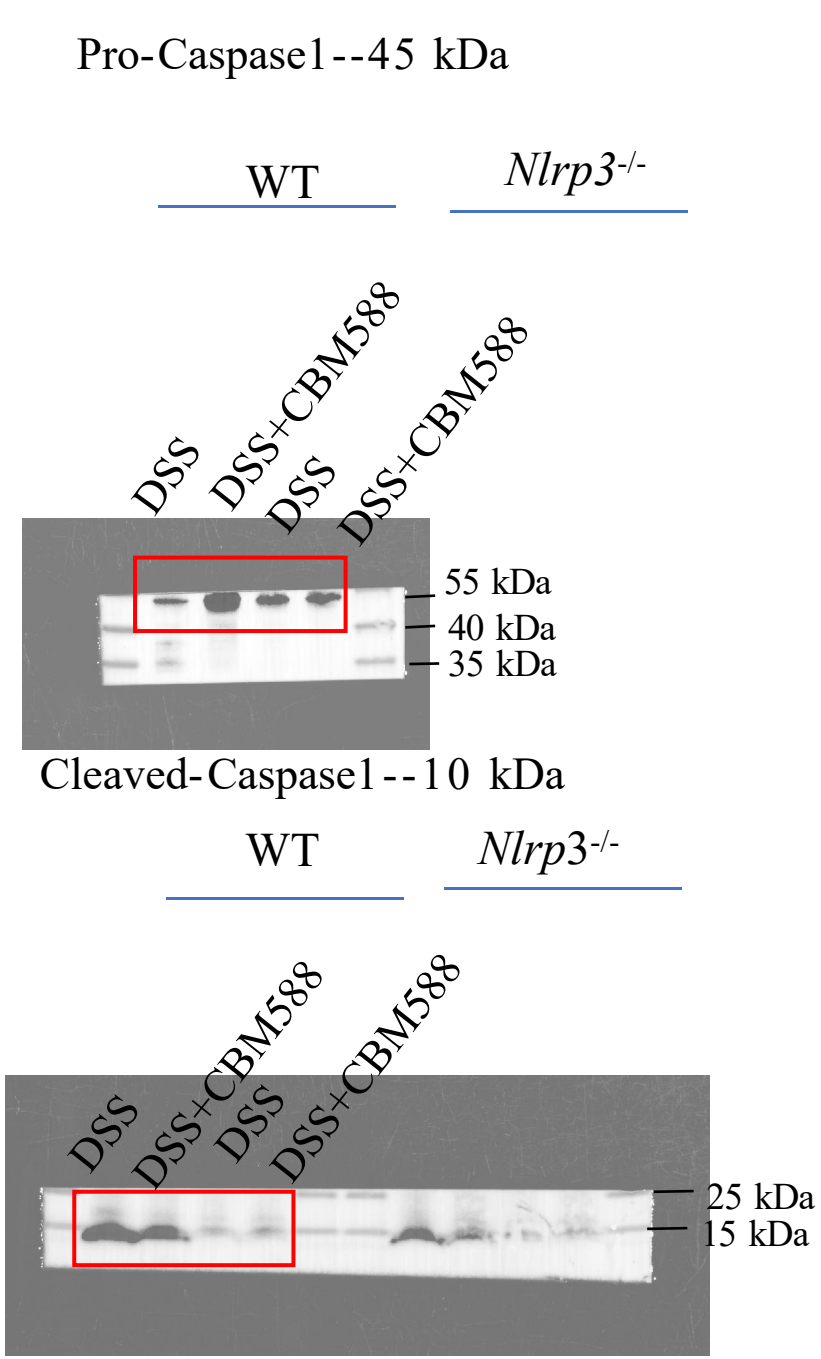
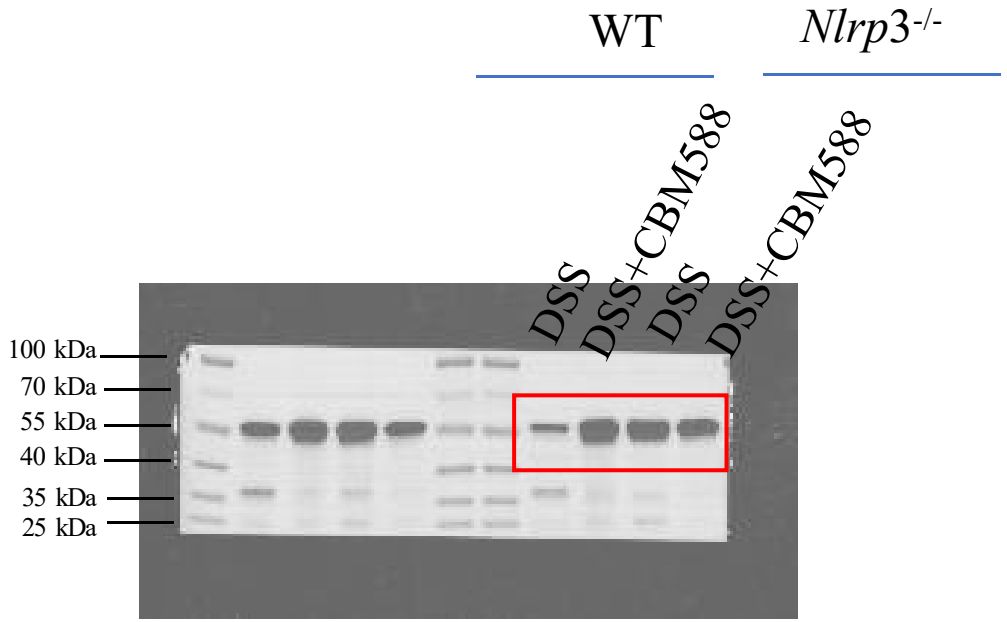
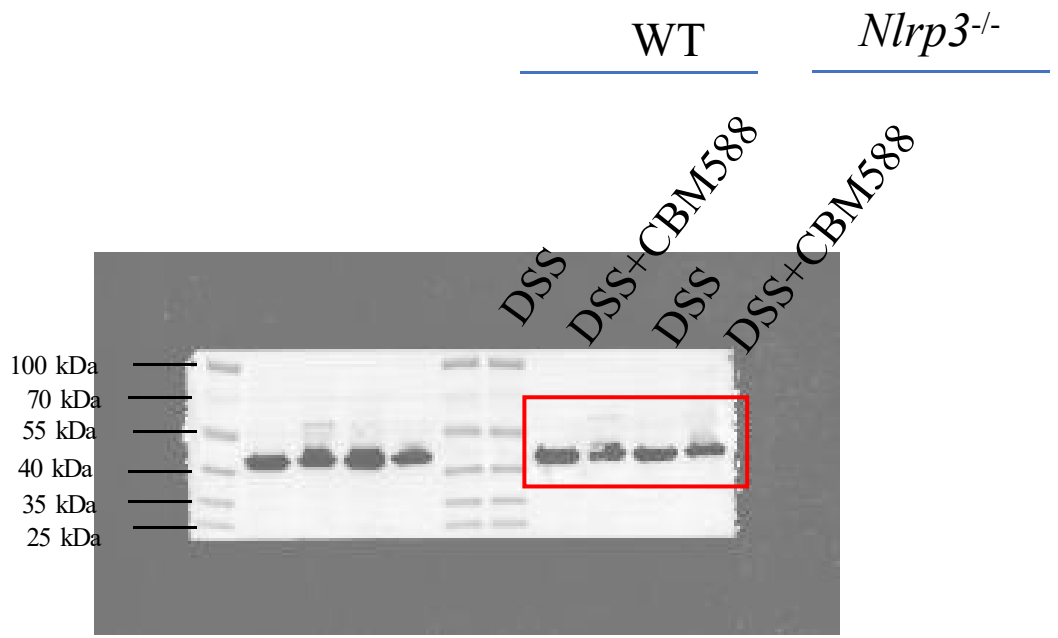


Figure S15. The original western blot images of Pro-Caspase1 and Cle-Caspase1(Figure 6).(Abcam, ab179515, 4-20% gel, the band marker was #26616 from Thermos Fisher) These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

Full-length -GSDMD 55k Da;



β-actin--43k Da



Cleaved GSDMD 35k Da

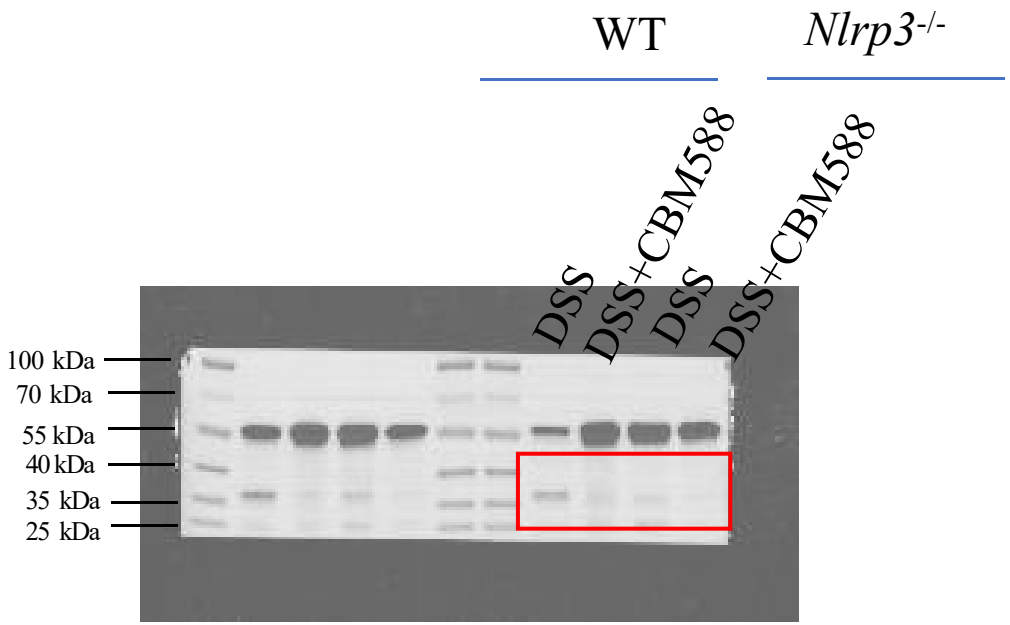


Figure S16. The original western blot images of Pro-GSDMD and Cle-GSDMD (Figure 6).(Abcam, ab219800, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.

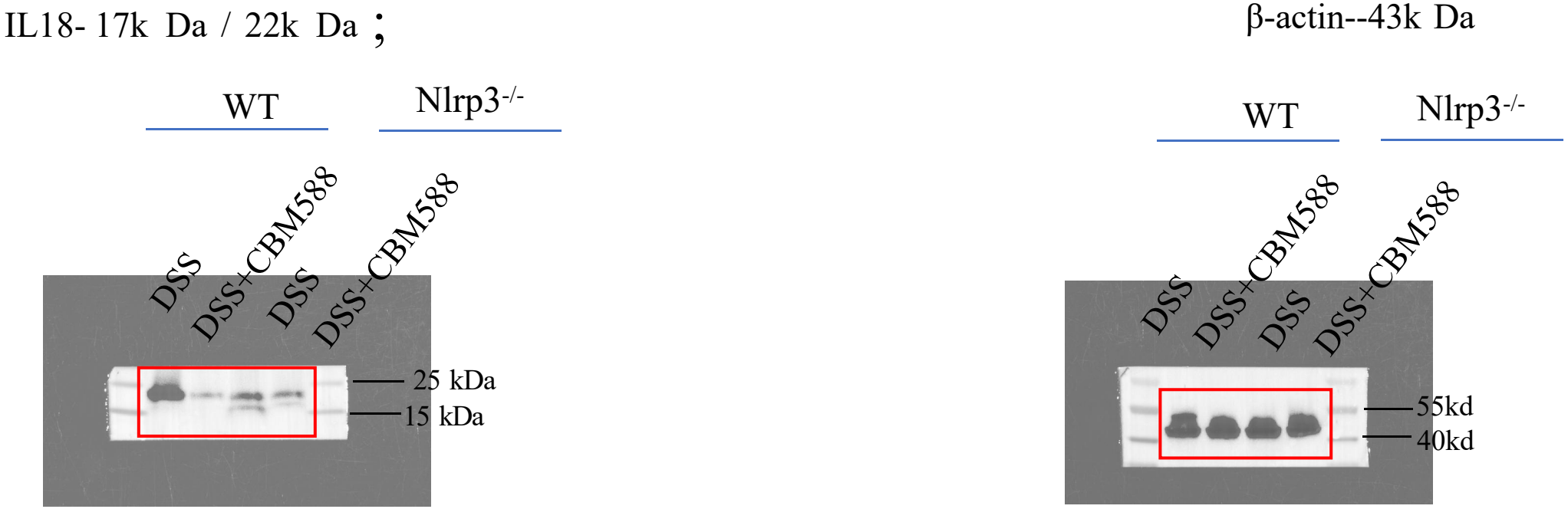


Figure S17. The original western blot images of IL18 (Figure 6).(Cell Signaling Technology, #57058, 4-20% gel, the band marker was #26616 from Thermos Fisher). These blot were cut prior to hybridization with antibodies during blotting. The target protein and the reference protein β-actin (Abclonal, AC026) which displayed were from the same pvdf membrane. Every specific antigen were duplicated for three times.