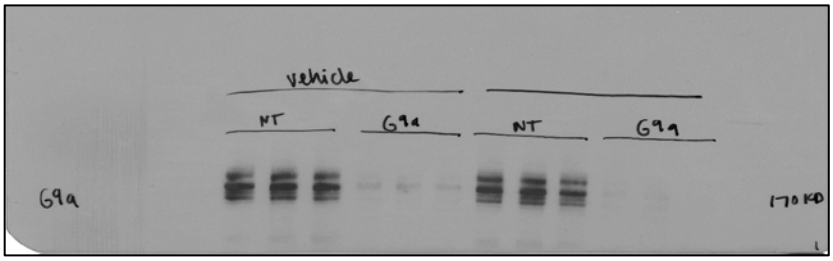
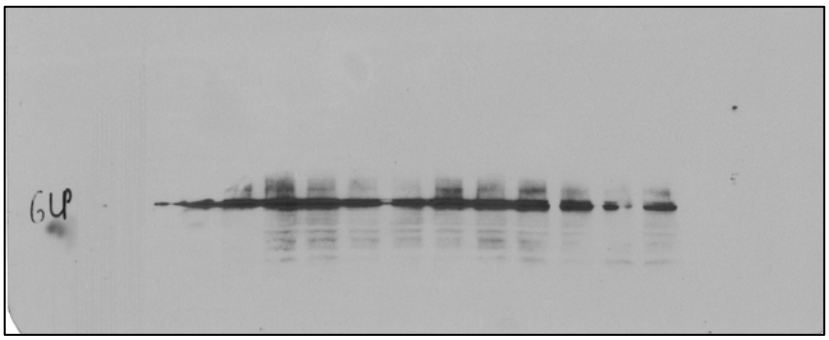
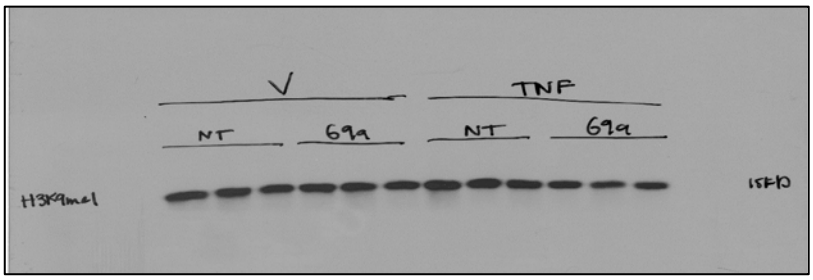
A.



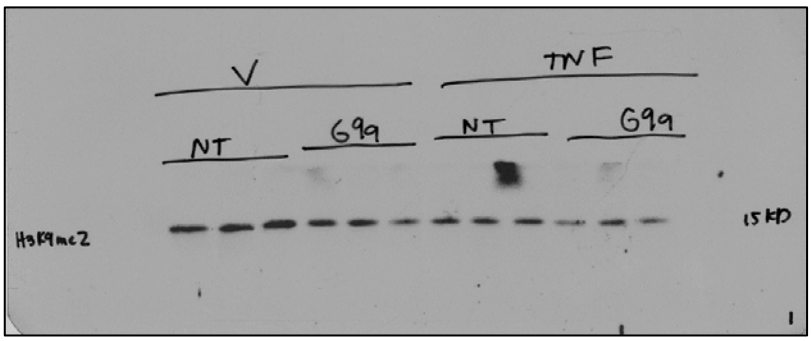
B.



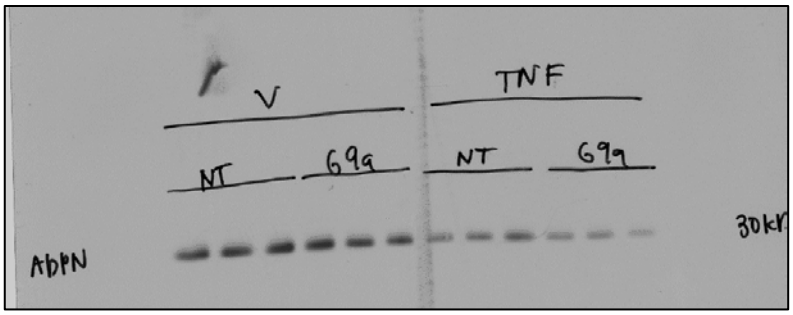
C.



D.



E.



F.

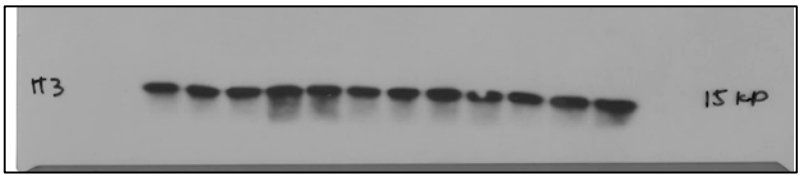


Figure S1. Original Western blot images related to Figure 1. **(A)** G9a, **(B)** GLP, **(C)** H3K9me1, **(D)** H3K9me2, **(E)** Adiponectin, and **(F)** Histone H3.

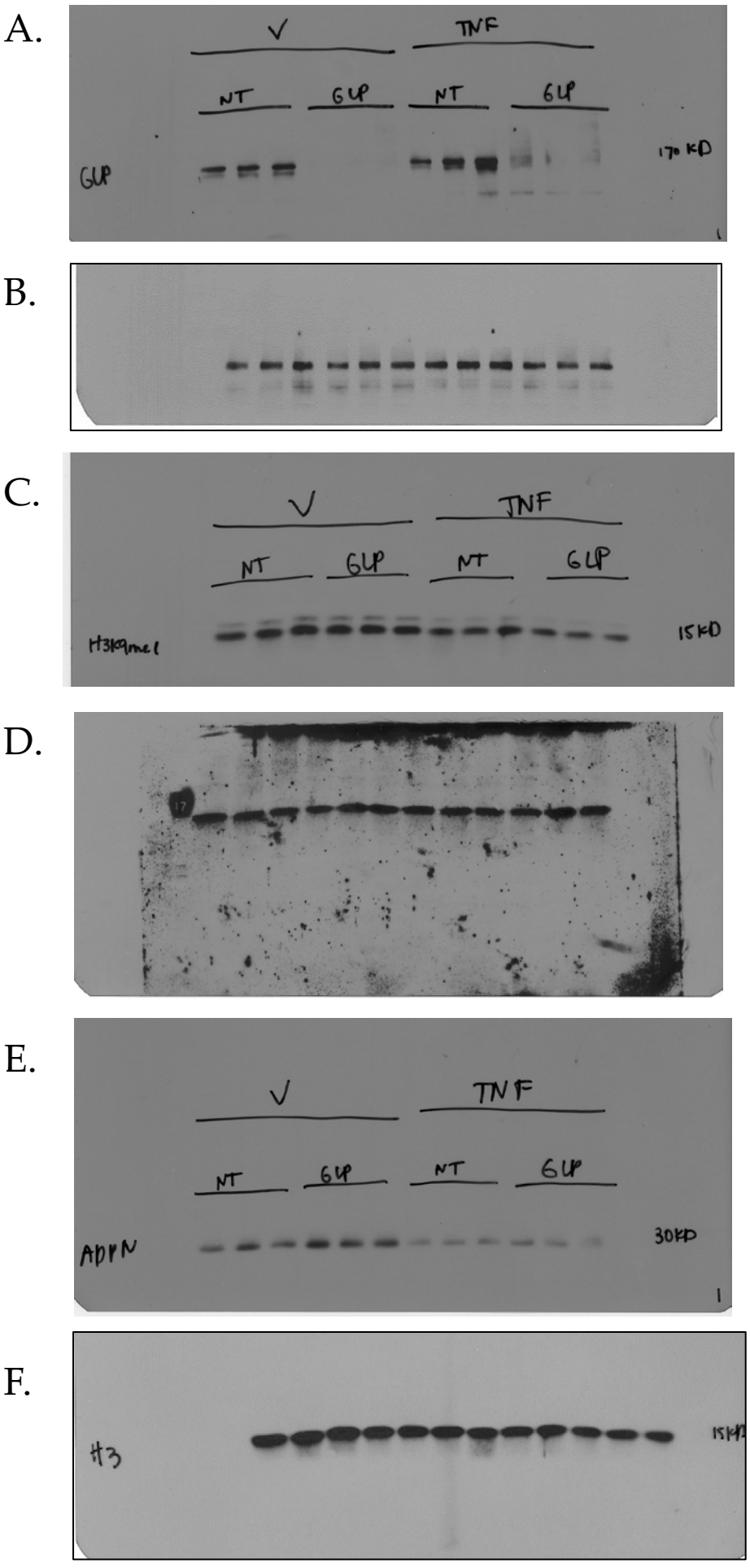


Figure S2. Original Western blot images related to Figure 2. **(A)** GLP, **(B)** G9a, **(C)** H3K9me1, **(D)** H3K9me2, **(E)** Adiponectin, and **(F)** Histone H3.

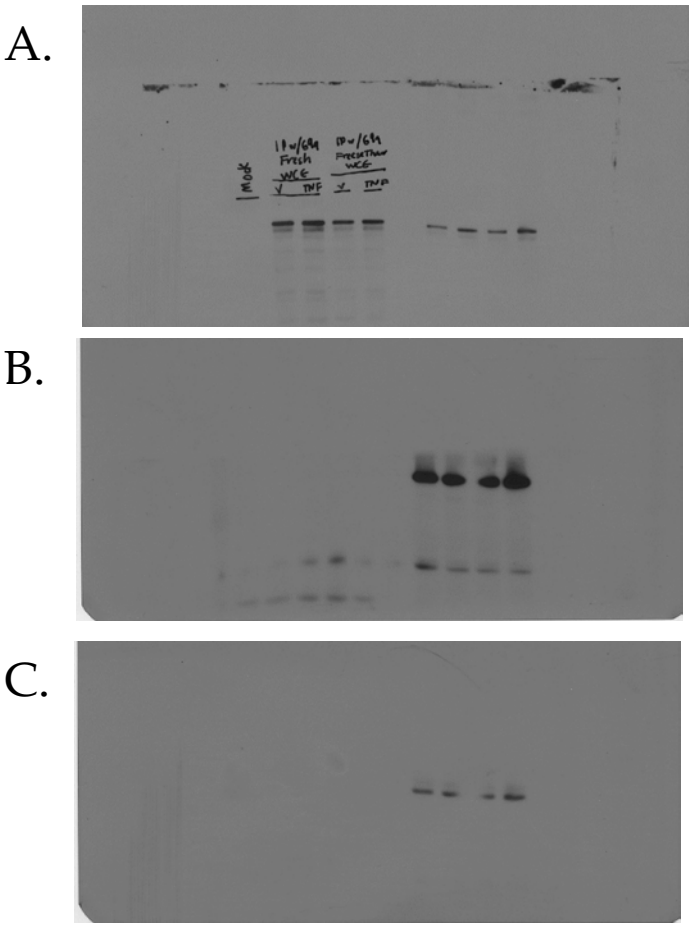


Figure S3. Original Western blot images related to Figure 4. **(A)** GLP, **(B)** STAT5A – dark exposure, and **(C)** STAT5A – light exposure.

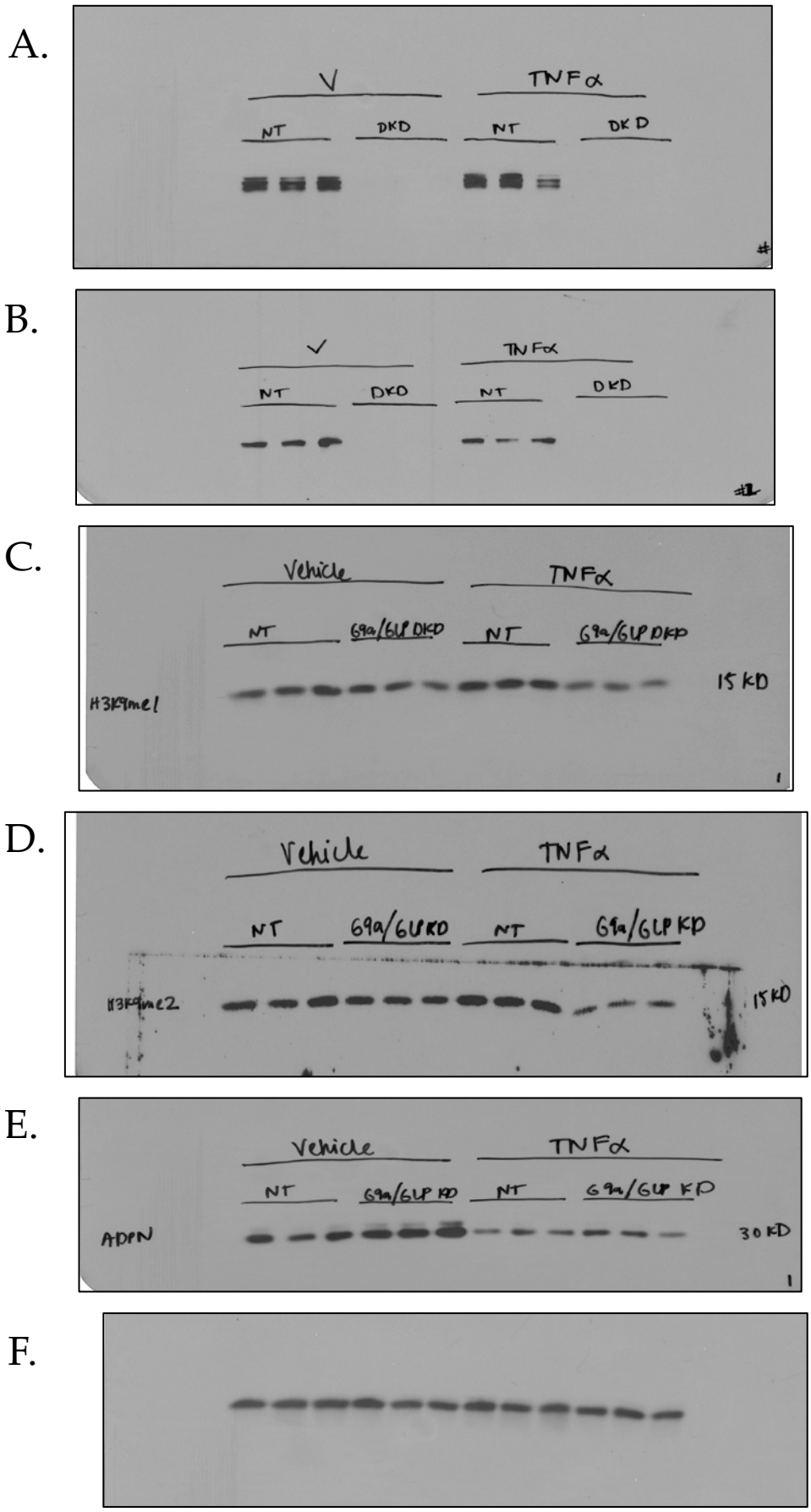


Figure S4. Original Western blot images related to Figure 5. **(A)** G9a, **(B)** GLP, **(C)** H3K9me1, **(D)** H3K9me2, **(E)** Adiponectin, and **(F)** Histone H3.

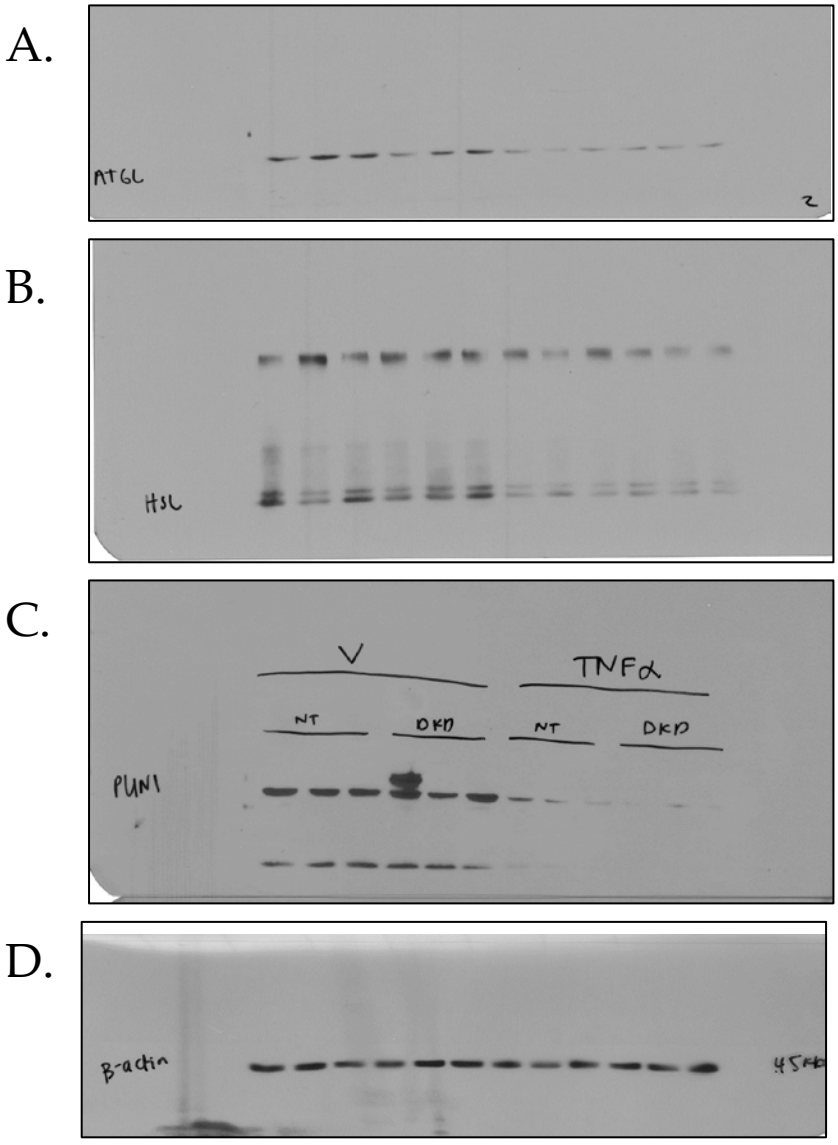


Figure S5. Original Western blot images related to Figure 8. **(A)** ATGL, **(B)** HSL **(C)** Perilipin, and **(D)** β-actin.

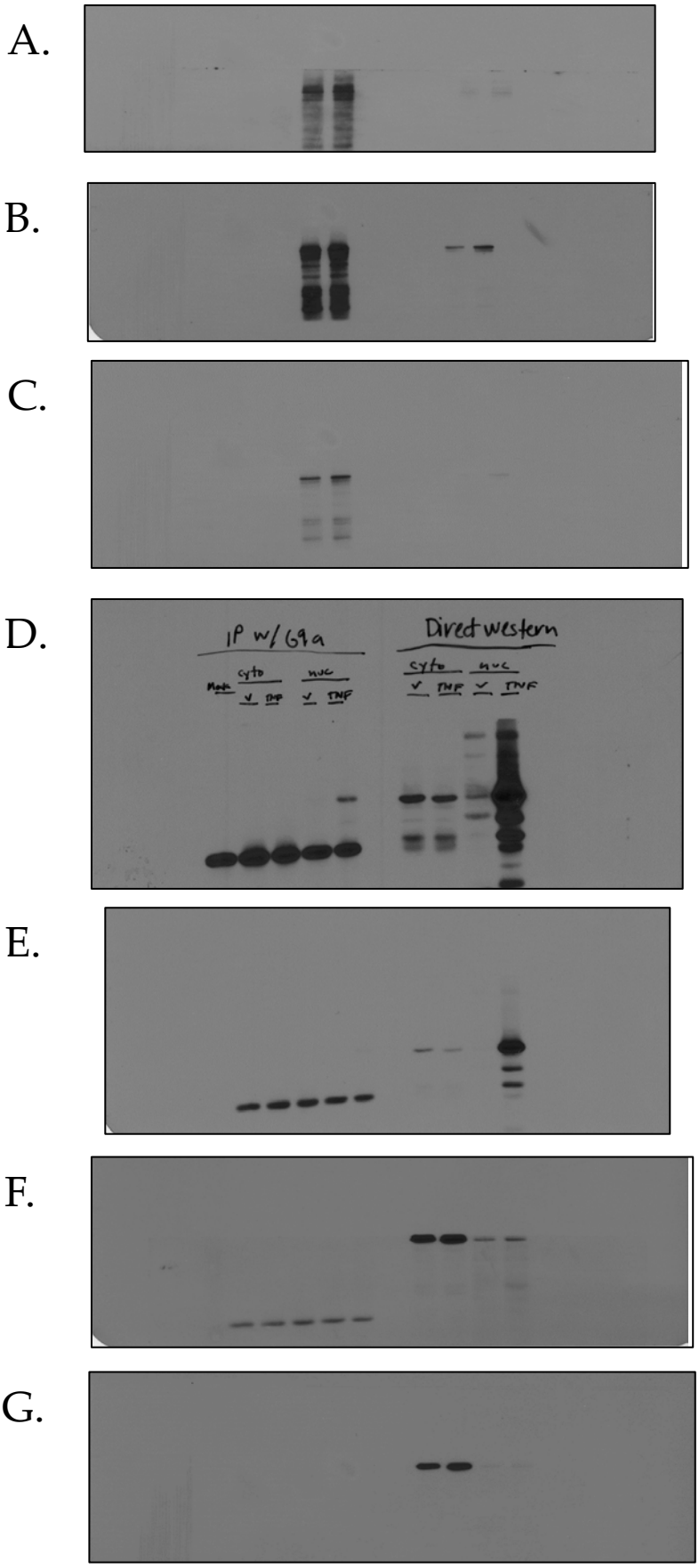
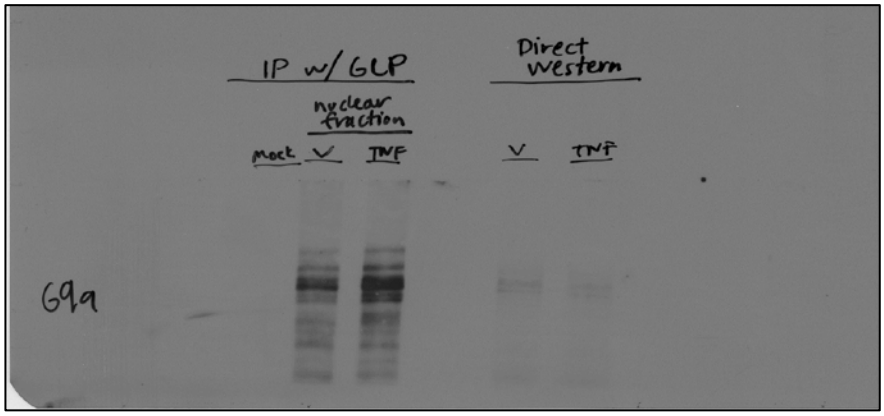
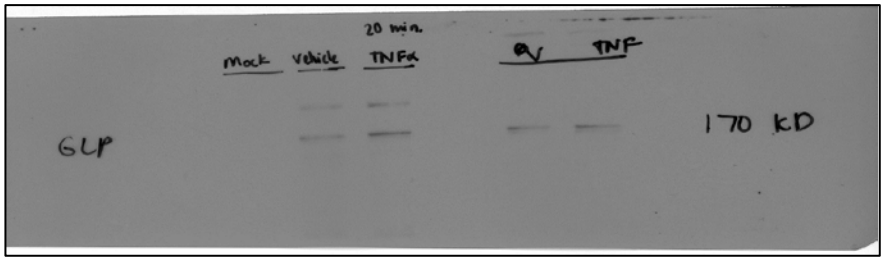


Figure S6. Original Western blot images related to Figure 9A. **(A)** G9a, **(B)** GLP – dark exposure, **(C)** GLP – light exposure, **(D)** p65 – dark exposure, **(E)** p65 – light exposure, **(F)** STAT5 – dark exposure, and **(G)** STAT5A – light exposure.

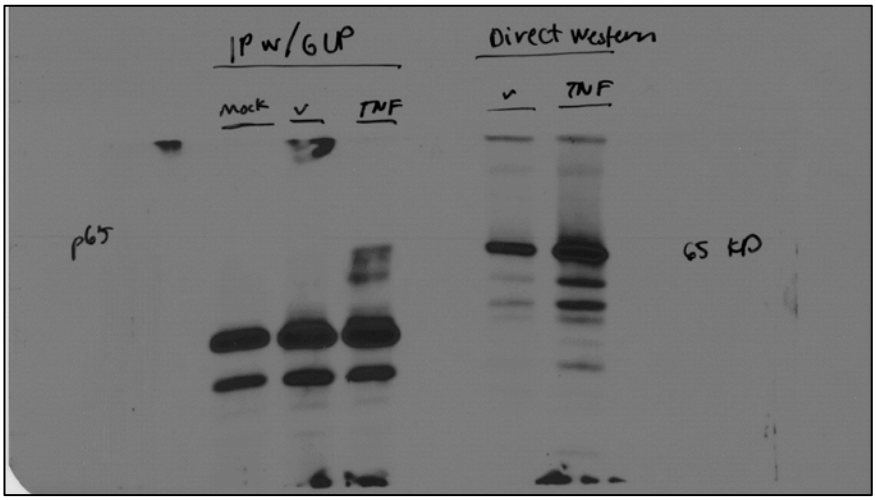
A.



B.



C.



D.

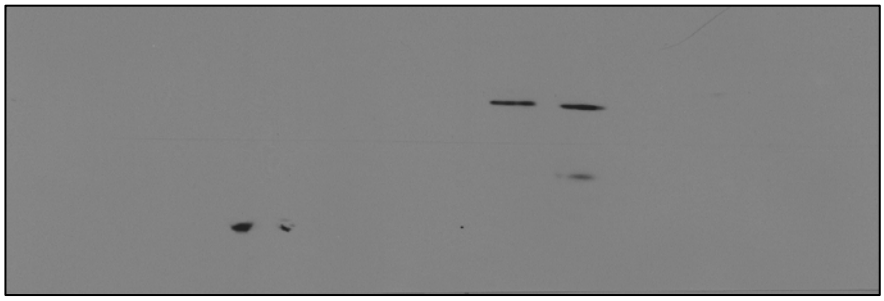


Figure S7. Original Western blot images related to Figure 9B. **(A)** G9a, **(B)** GLP, **(C)** p65, and **(D)** STAT5.