

Figure S1. Figure 4C – MCF10A – TASK 3

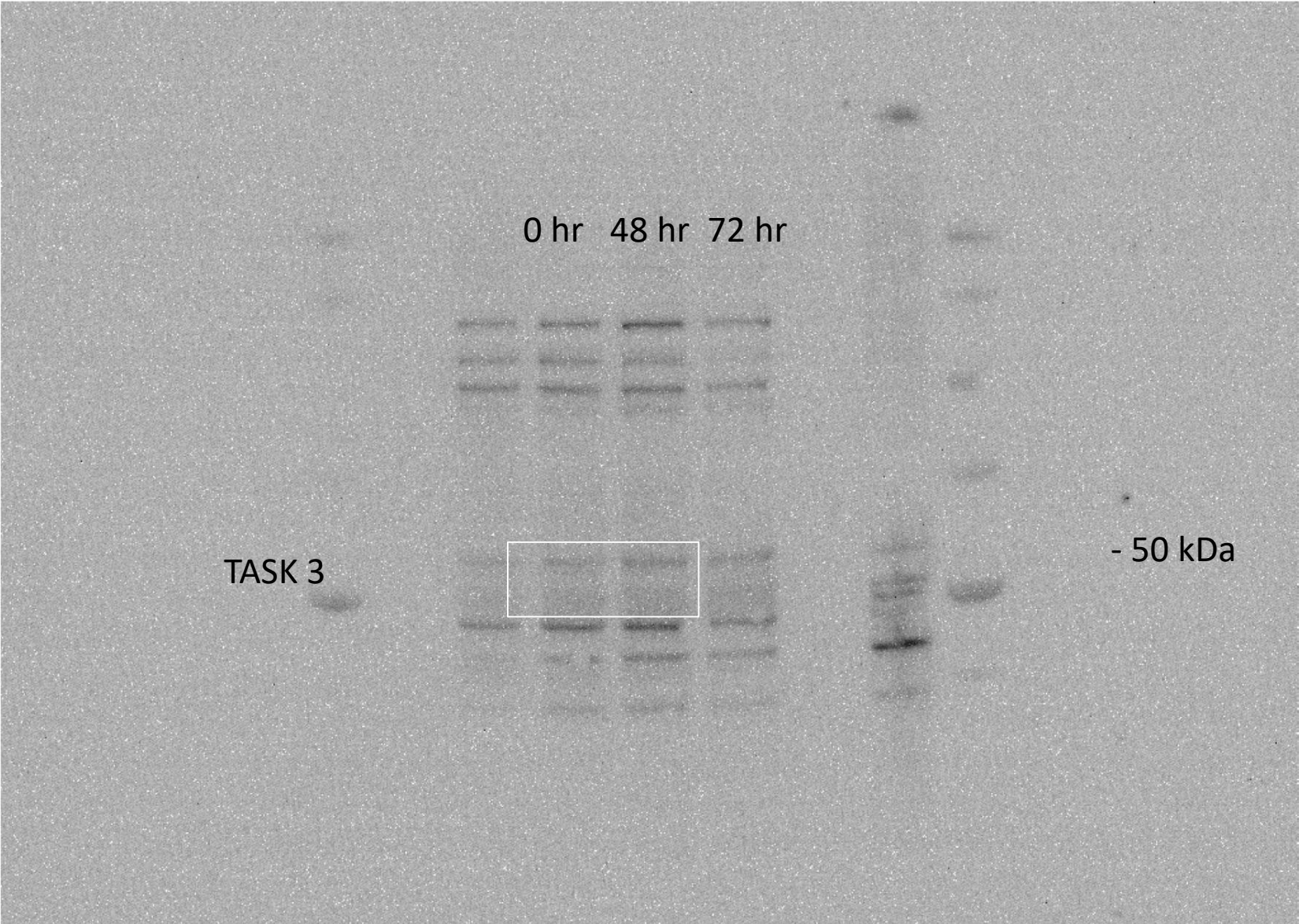


Figure S2. Figure 4C – MCF10A – GAPDH

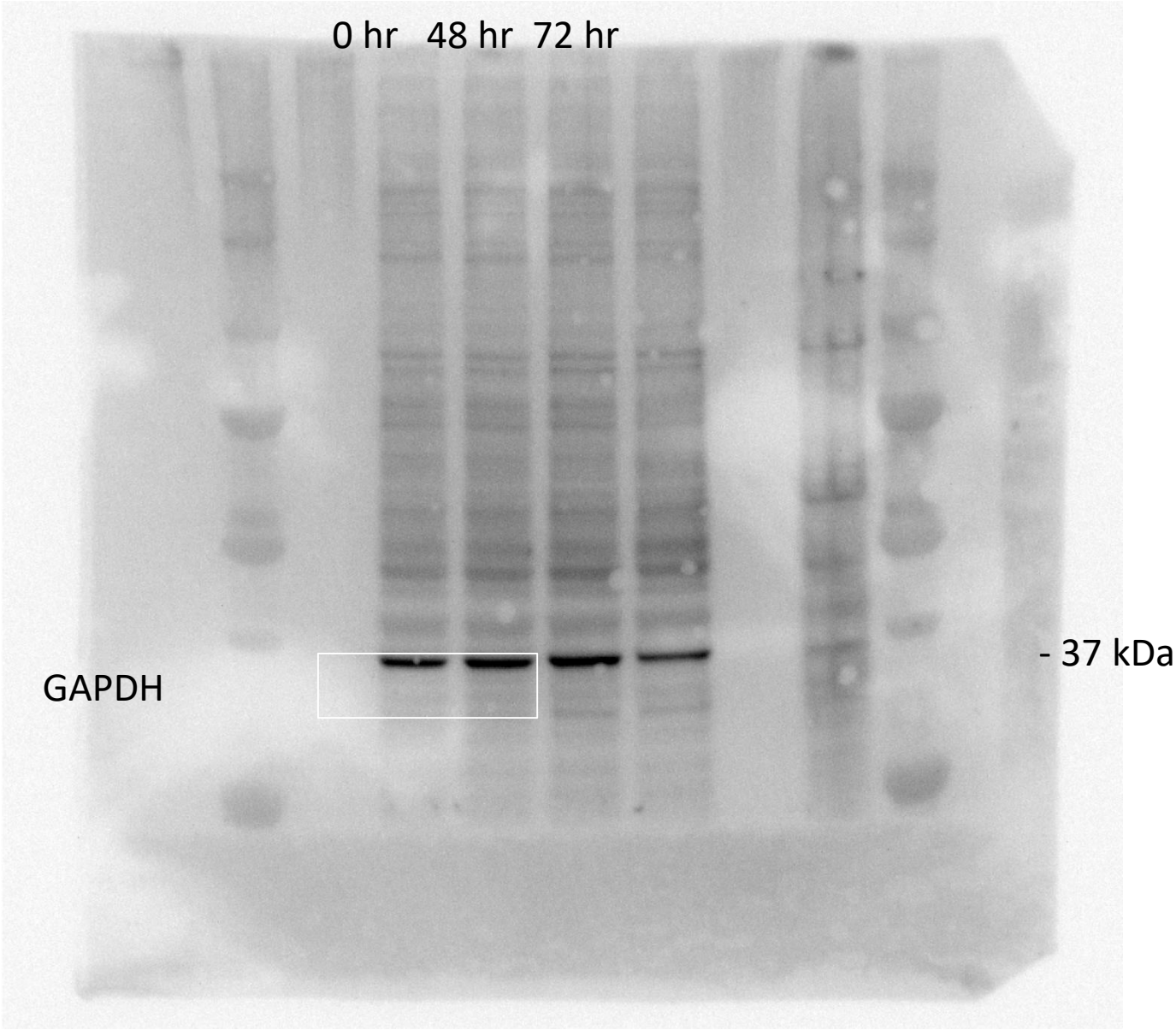


Figure S3. Figure 4C – HMEC15 Set 1 – Expt 2 – Uncropped TASK3 western

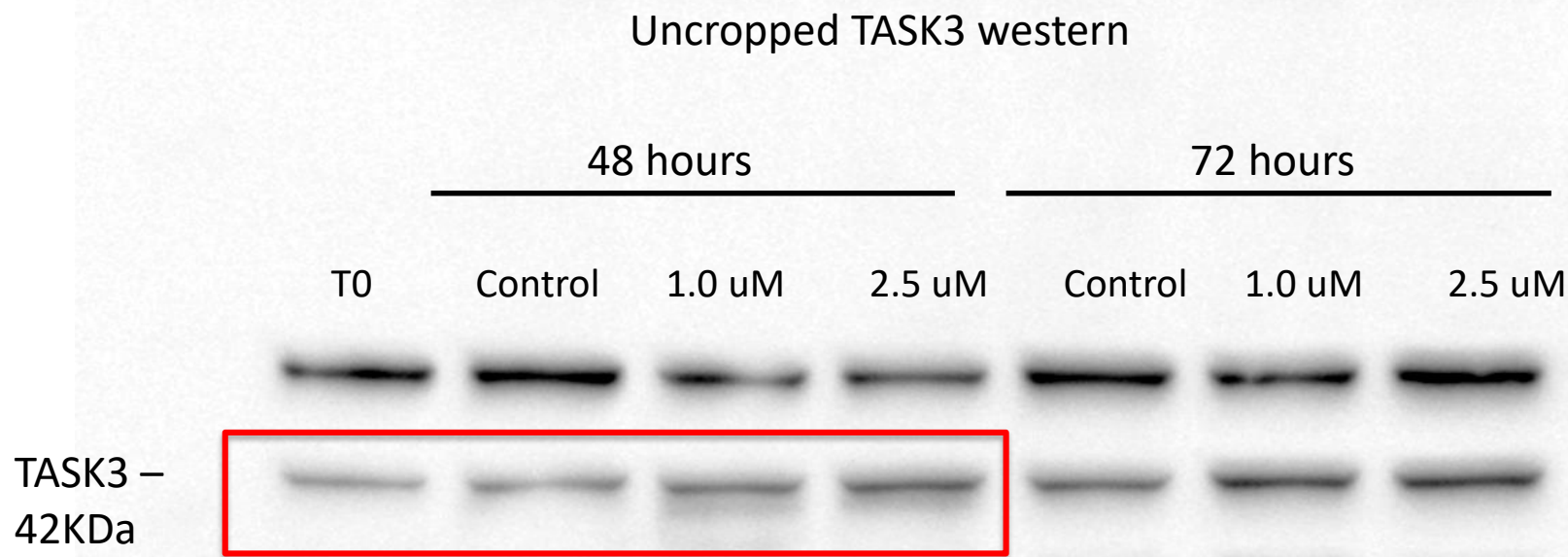


Figure S4. Figure 4C – HMEC15 Set 1 – Expt 2 – Uncropped TASK3 with ladder

Uncropped TASK3 with ladder

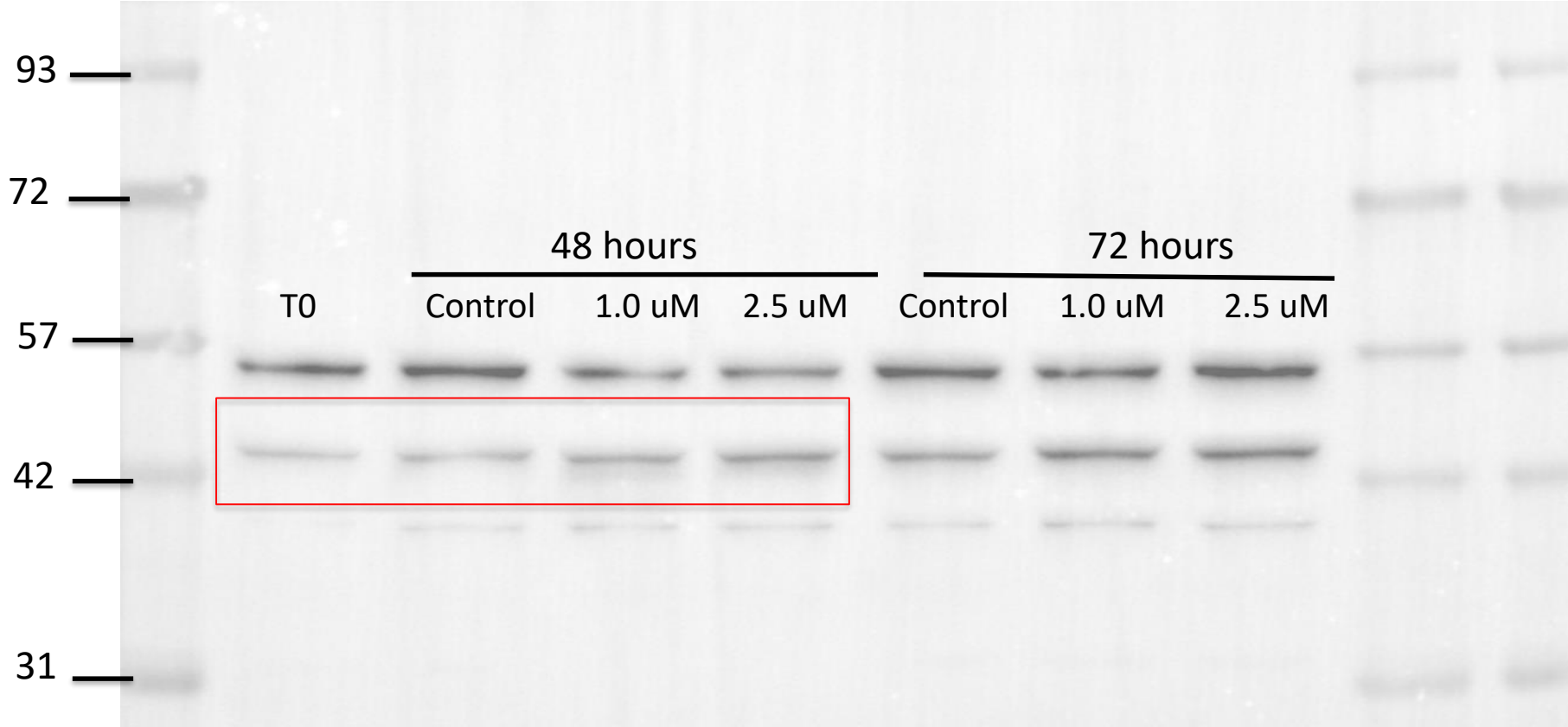


Figure S5. Figure 4C – HMEC15 – set 1 – loading control – Expt 2

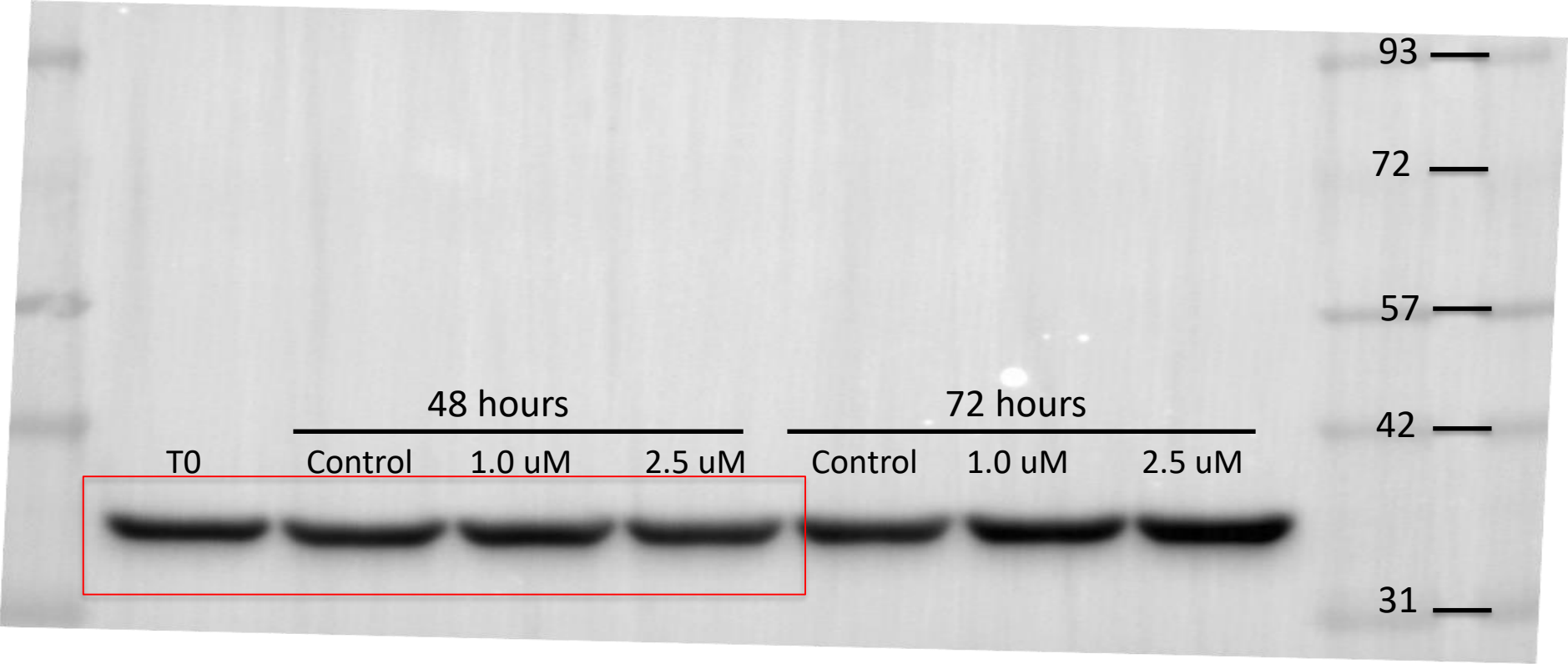


Figure S6. Figure 4C – HMEC15 – set 2 – Expt 1 – Uncropped TASK3 western

Uncropped TASK3 western

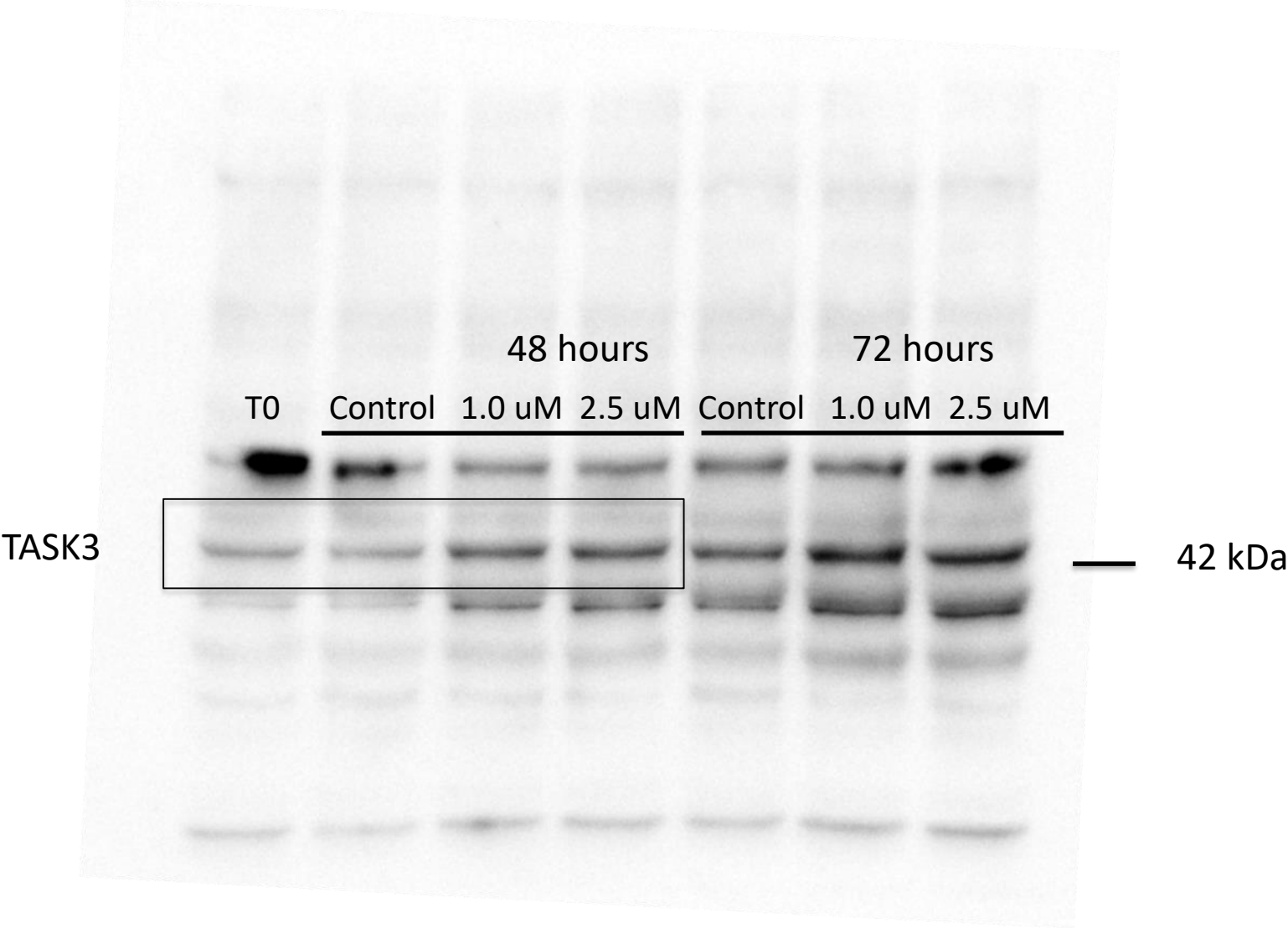
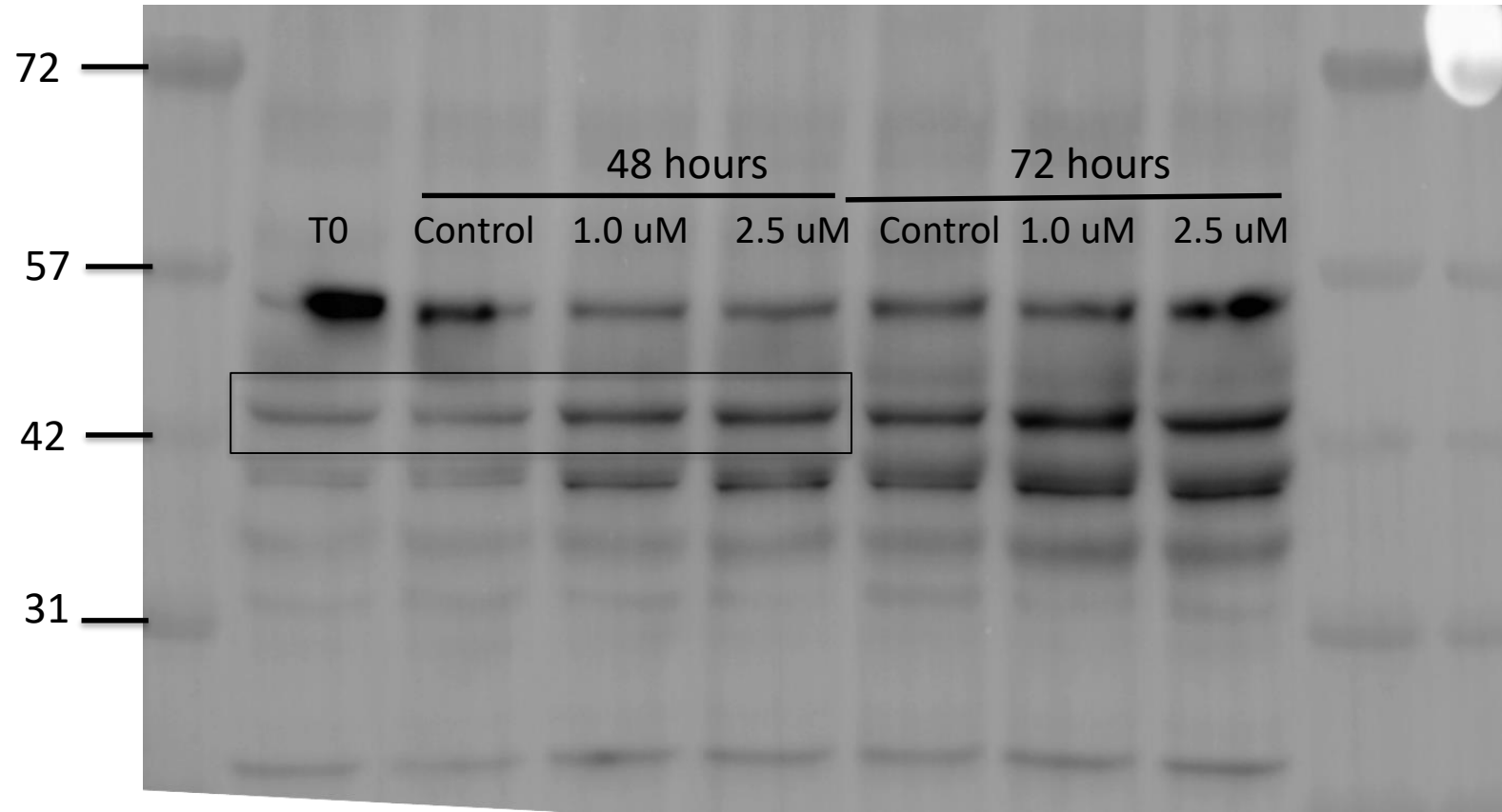
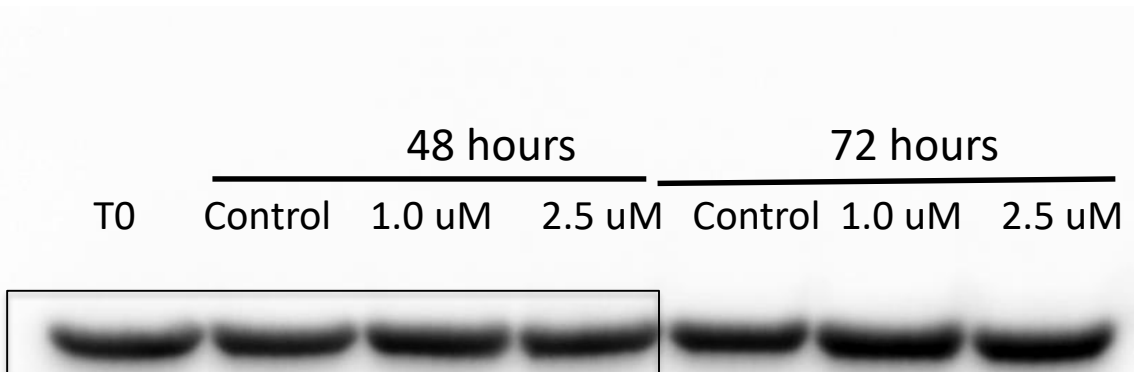


Figure S7. Figure 4C – HMEC15 – set 2 – Expt 1 – Uncropped TASK3 with ladder

Uncropped TASK3 with ladder



## Uncropped GAPDH



Western blot analysis of GAPDH protein levels. The blot shows bands for GAPDH across seven lanes. The lanes are labeled as follows: T0, 48 hours (Control, 1.0  $\mu$ M, 2.5  $\mu$ M), and 72 hours (Control, 1.0  $\mu$ M, 2.5  $\mu$ M). A box highlights the first four lanes (T0, 48 hours Control, 48 hours 1.0  $\mu$ M, and 48 hours 2.5  $\mu$ M). The GAPDH protein levels appear consistent across all lanes, indicating equal protein loading.

Time Point	Treatment	GAPDH Band Intensity (approximate)
T0	-	Strong
48 hours	Control	Strong
	1.0 $\mu$ M	Strong
	2.5 $\mu$ M	Strong
72 hours	Control	Strong
	1.0 $\mu$ M	Strong
	2.5 $\mu$ M	Strong

# Uncropped GAPDH

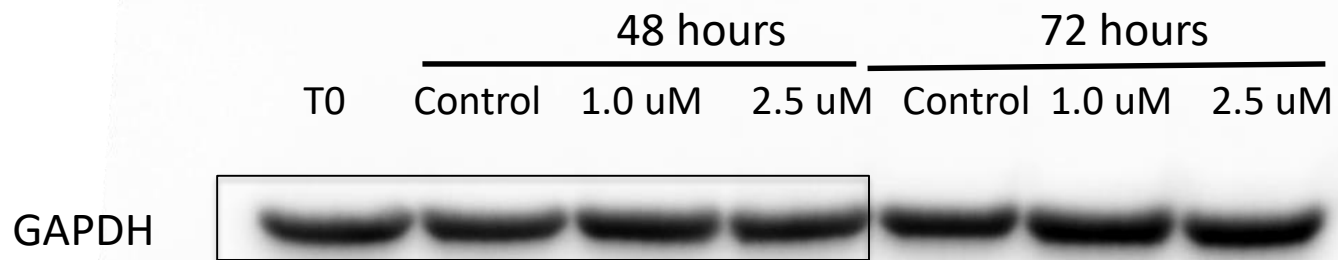




Figure S9. Figure 4C – HMEC15 – set 2 – Exp 1 – Uncropped GAPDH

Uncropped GAPDH

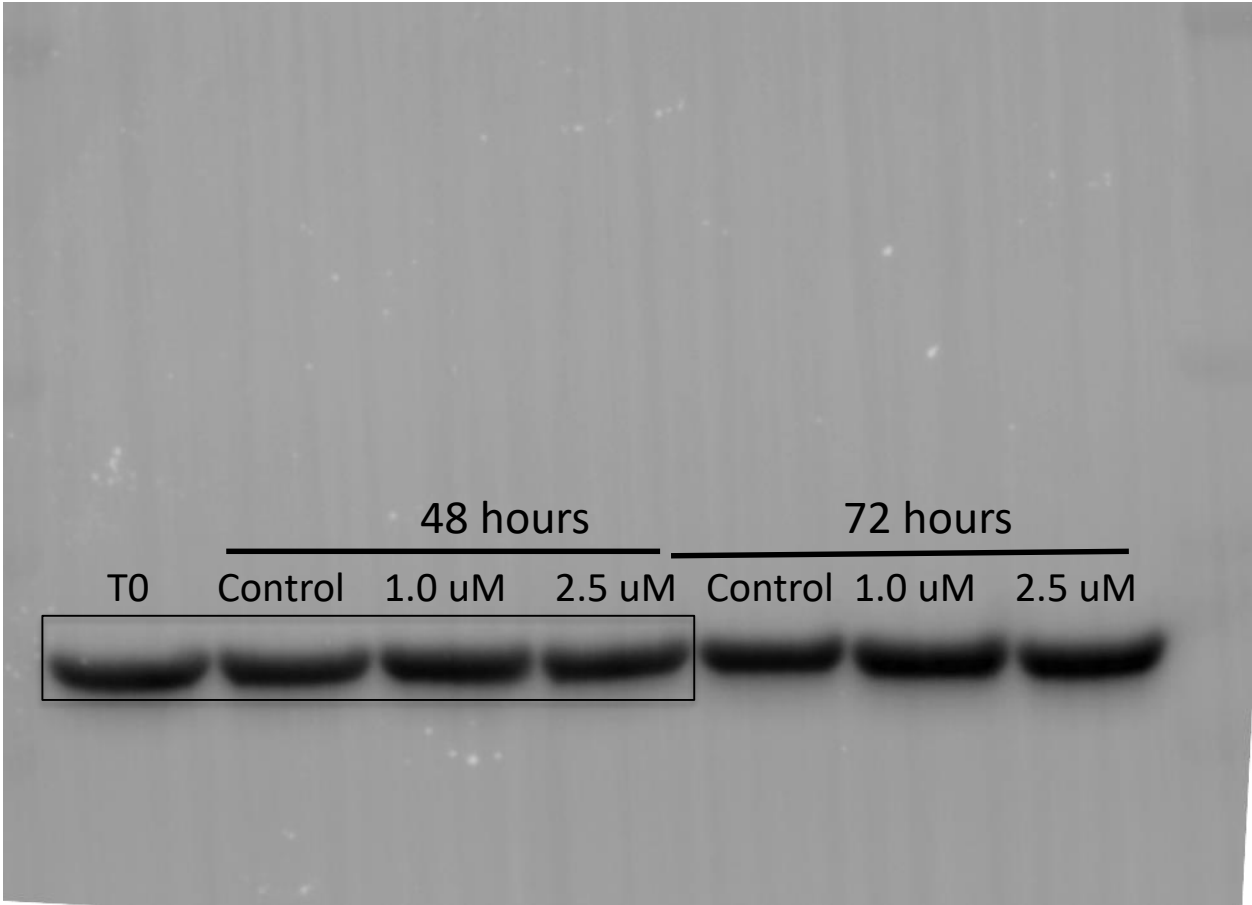


Figure S10. Figure 4C – HMEC15 – set 3 – Exp 3 – TASK3 original blot

# TASK3 original blot

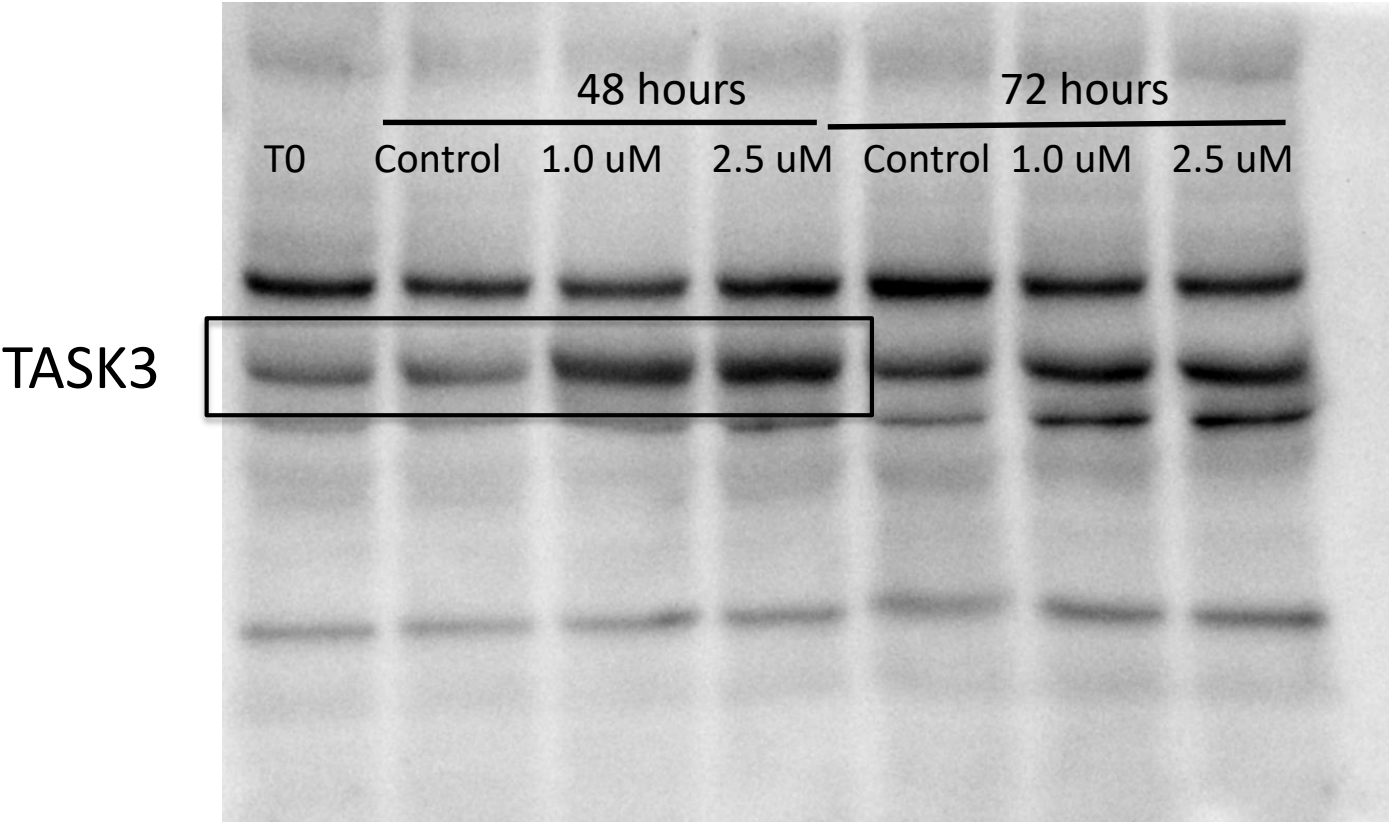




Figure S12. Figure 4C – HMEC15 – set 3 – Ext 3 – HMEC15 treated with 5-AzC for up to 48 hours, GAPDH

HMEC15 treated with 5-AzC for up to 48 hours, GAPDH

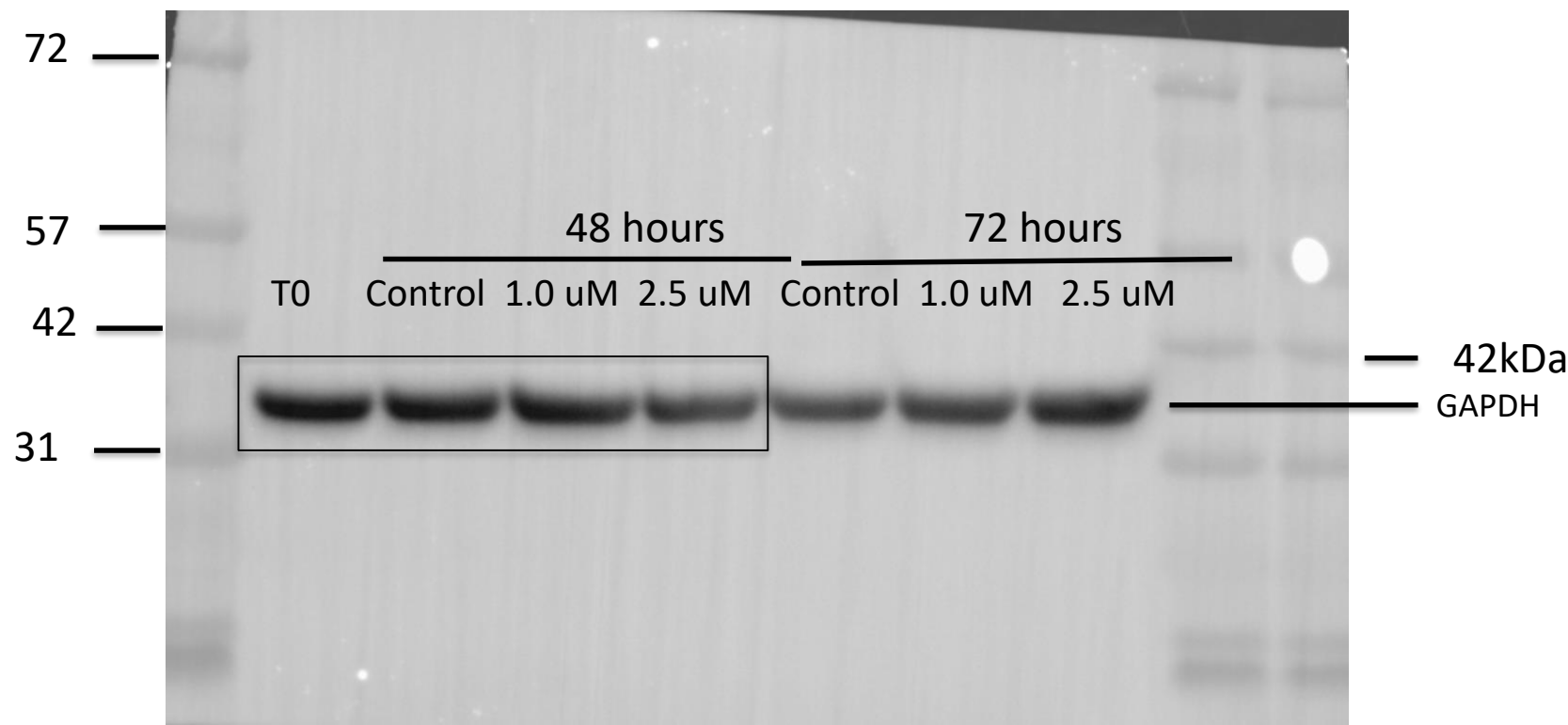


Figure S13. Figure 4C– HMEC15 – set 3 – Expt 3 – GAPDH original blot

# GAPDH original blot

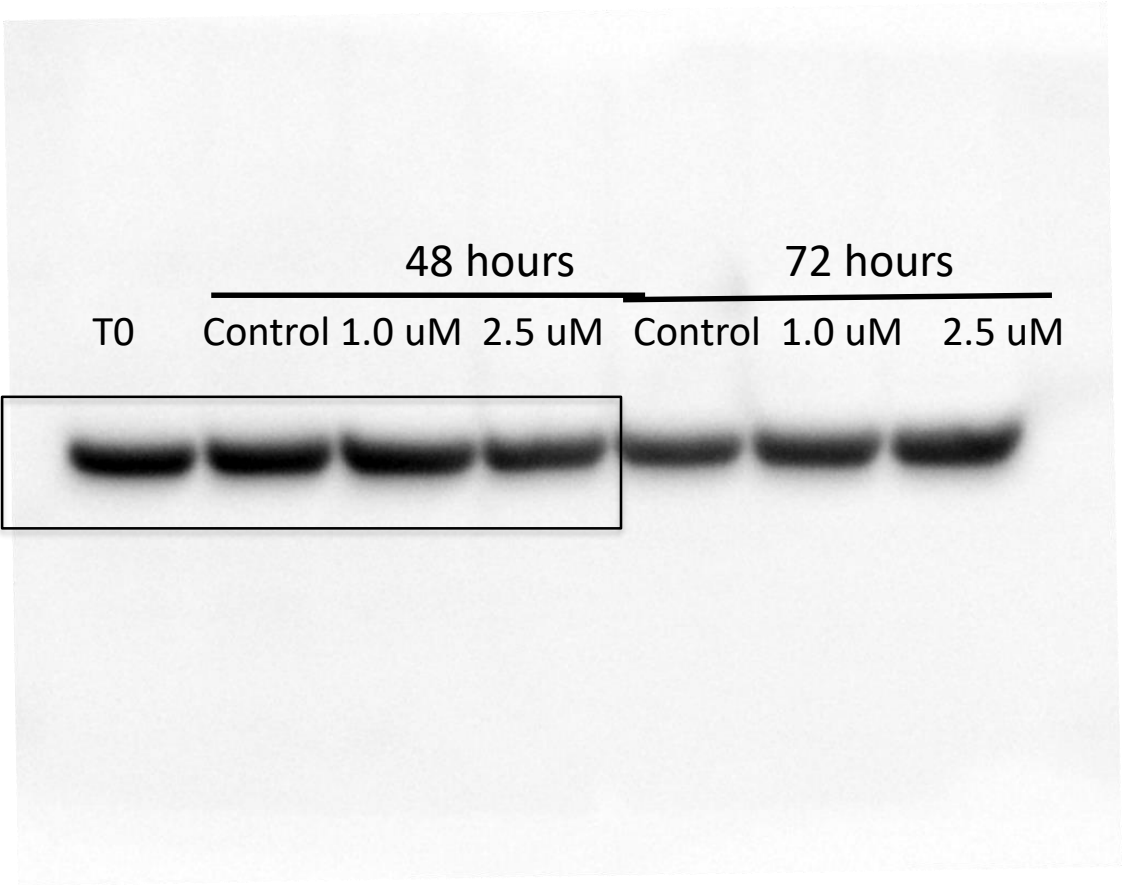


Figure S14. Figure 5A

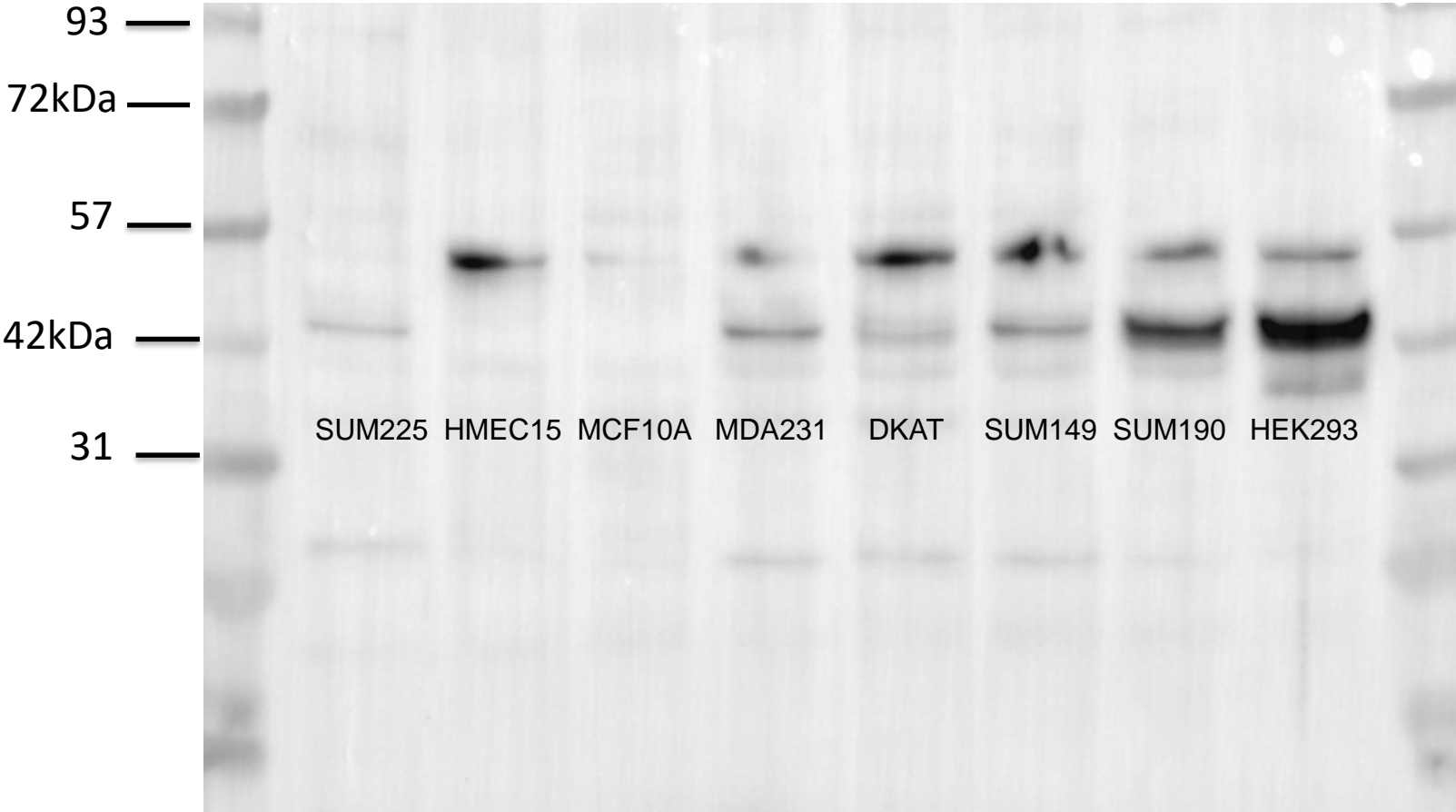


Figure S15. Figure 5A – GAPDH

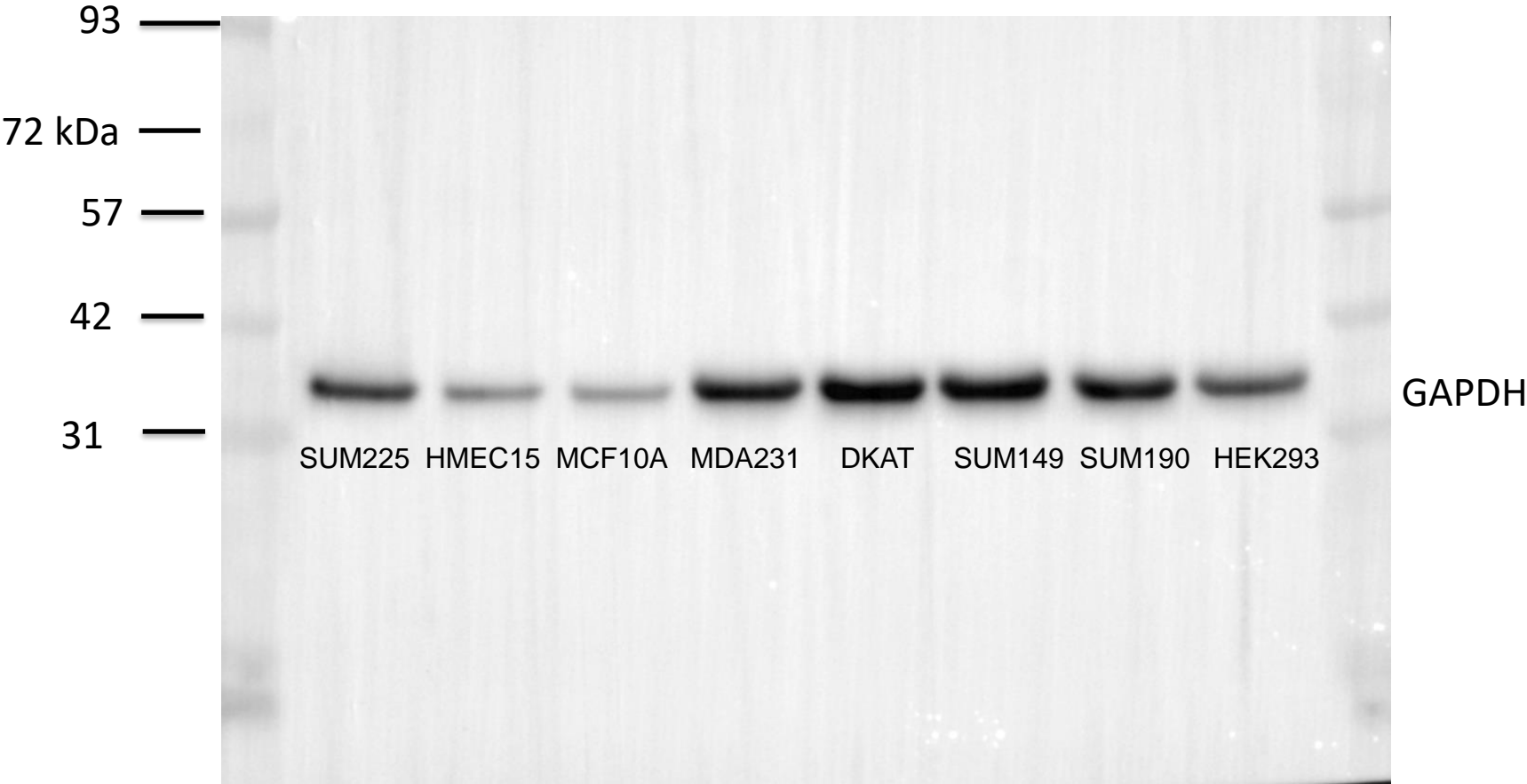


Figure S16. Current Figure 5B and former Figure 6A – TASK3 Flag

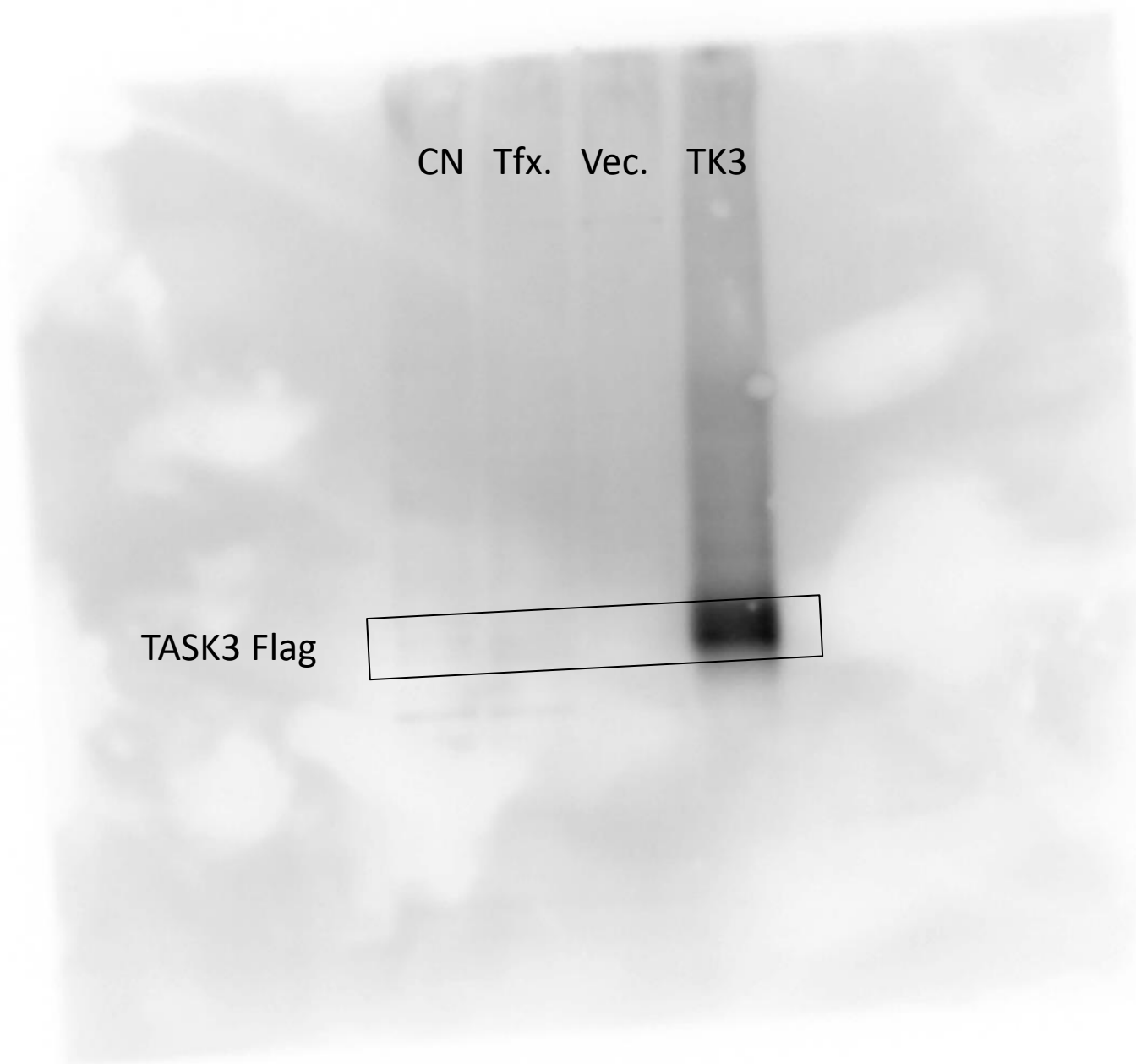




Figure S17. Current Figure 5B and former Figure 6A – TASK3 – 42KDa

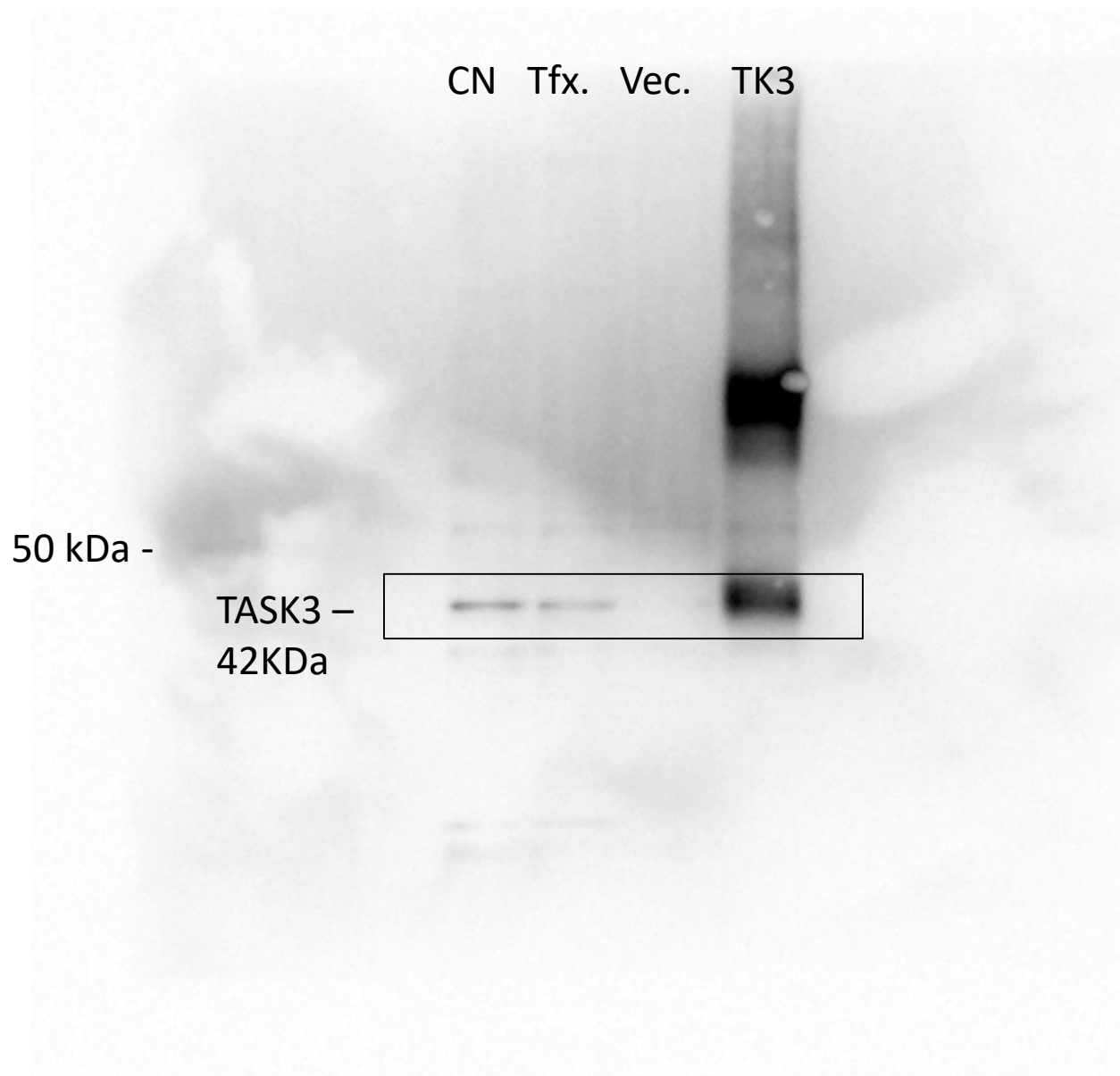
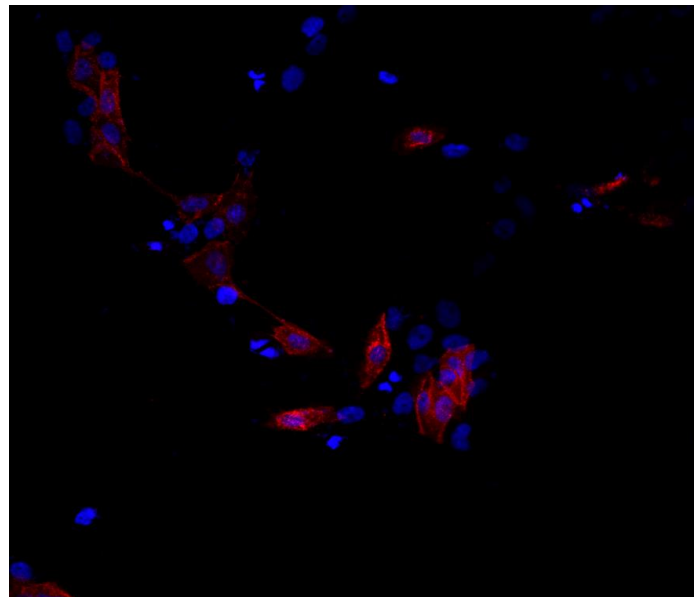
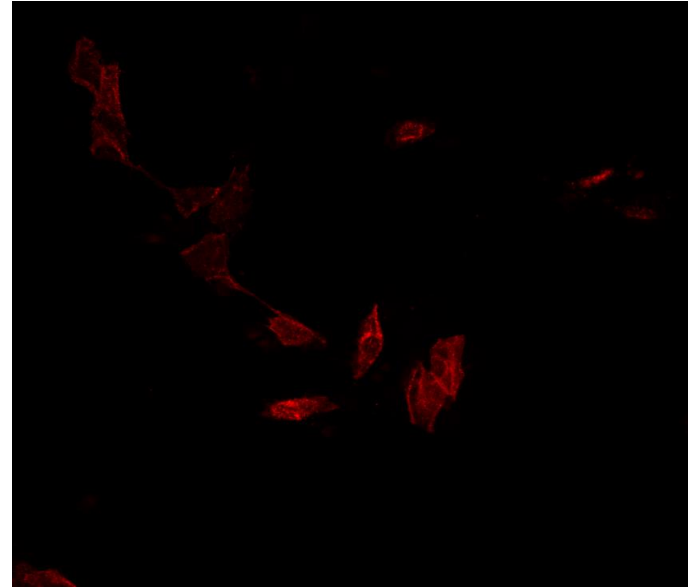
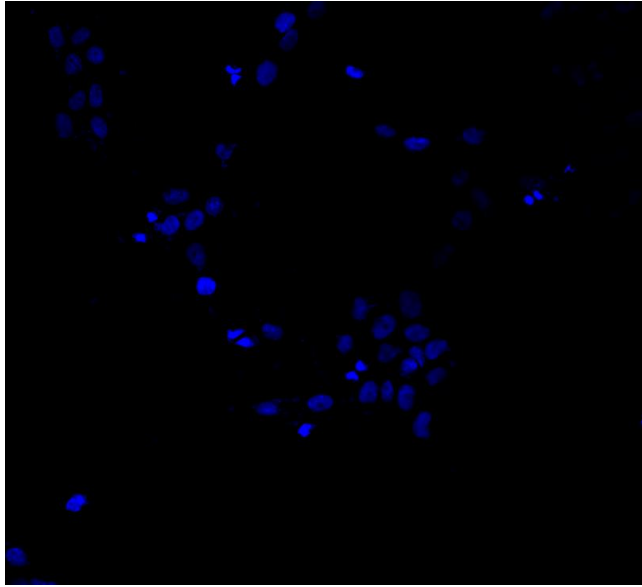
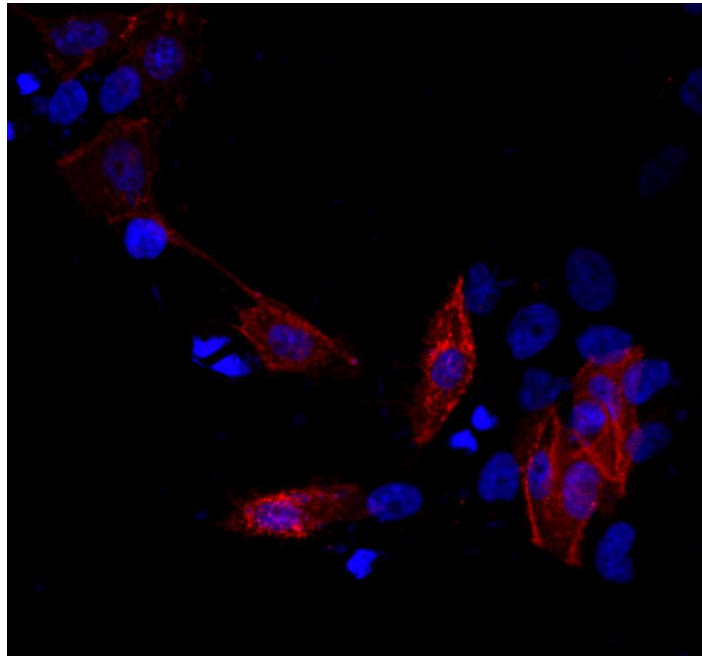
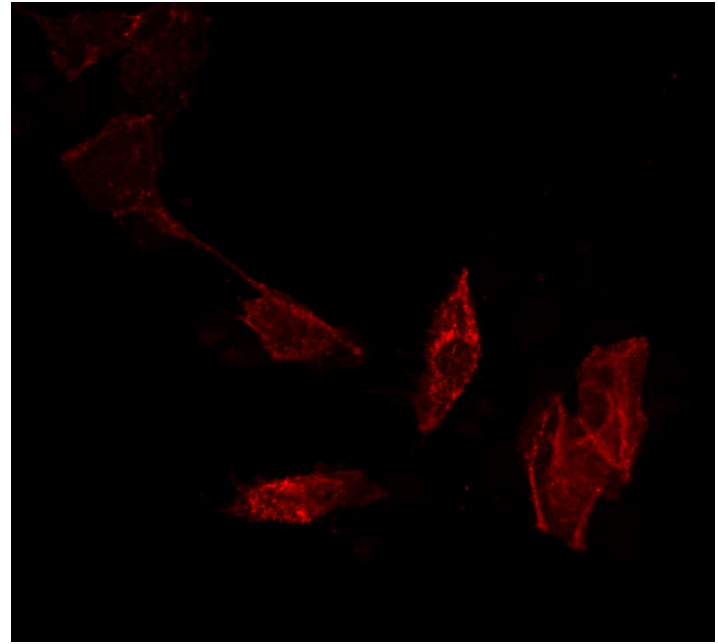
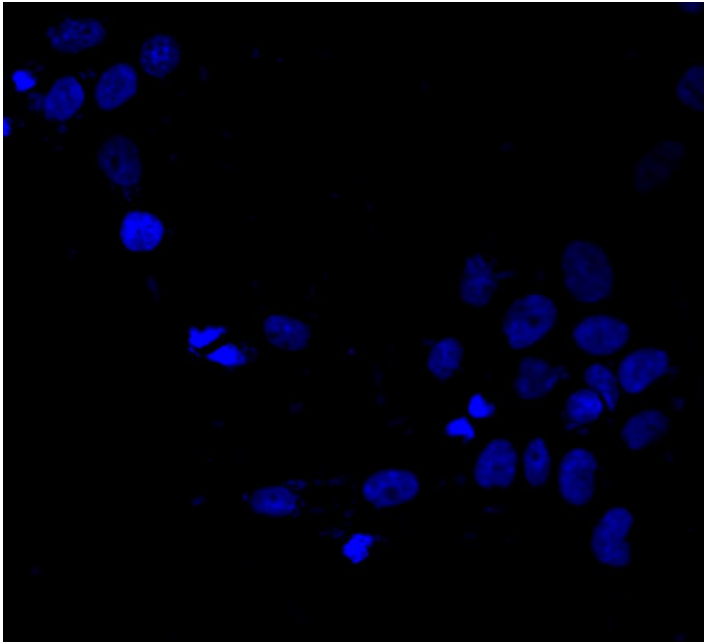


Figure S18. Figure 5C – expt 1 – MCF10A Blobe – KCNK9 Flag-Tag +



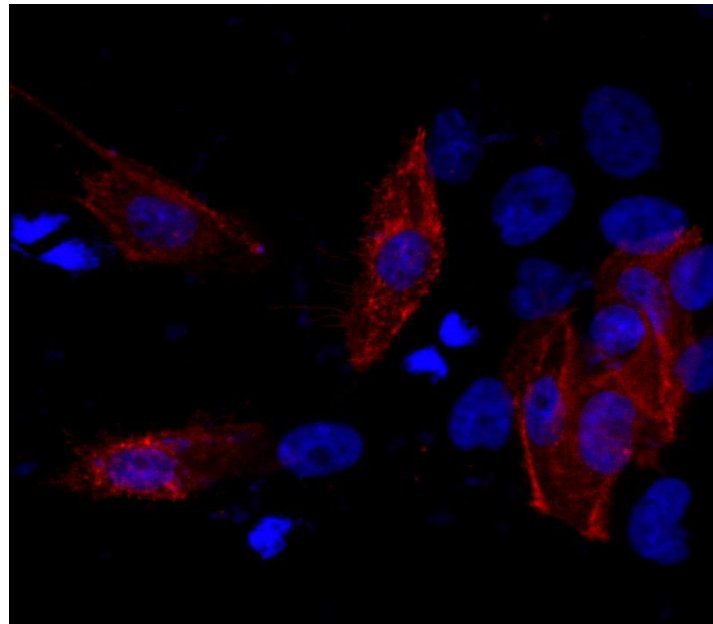
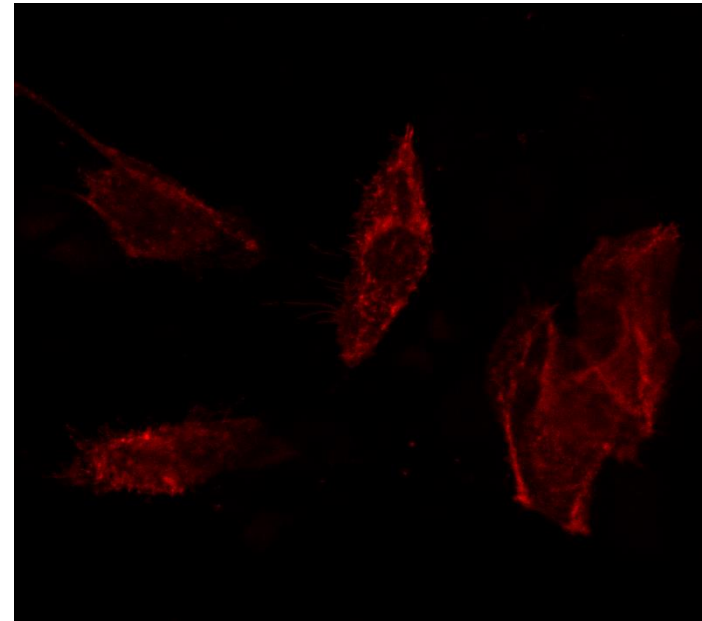
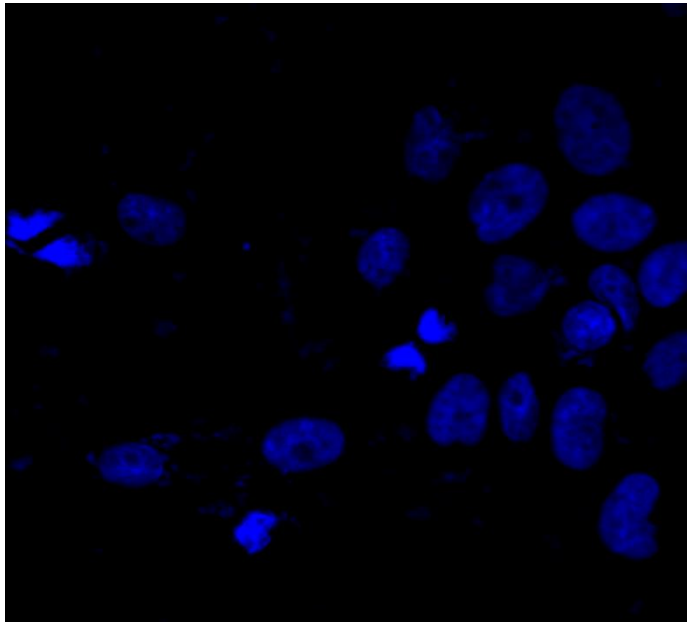
20X

Figure S18. Figure 5C – expt 1 – MCF10A Blobe – KCNK9 Flag-Tag +



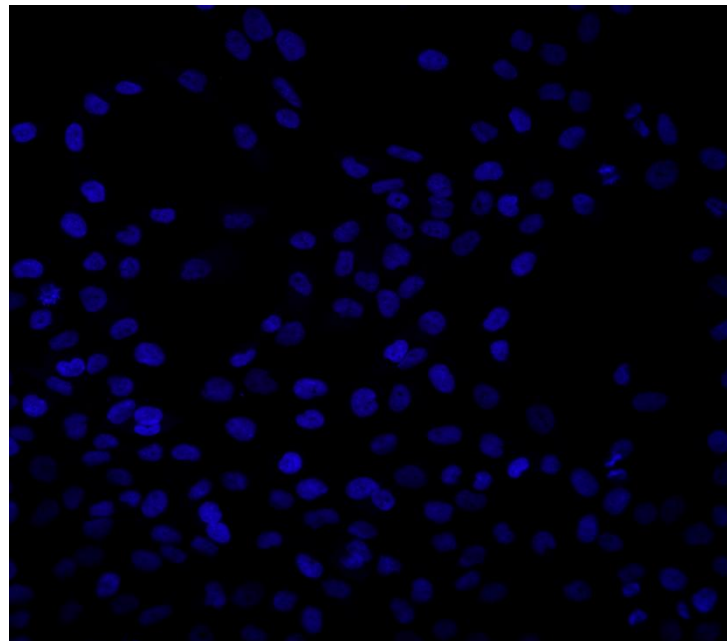
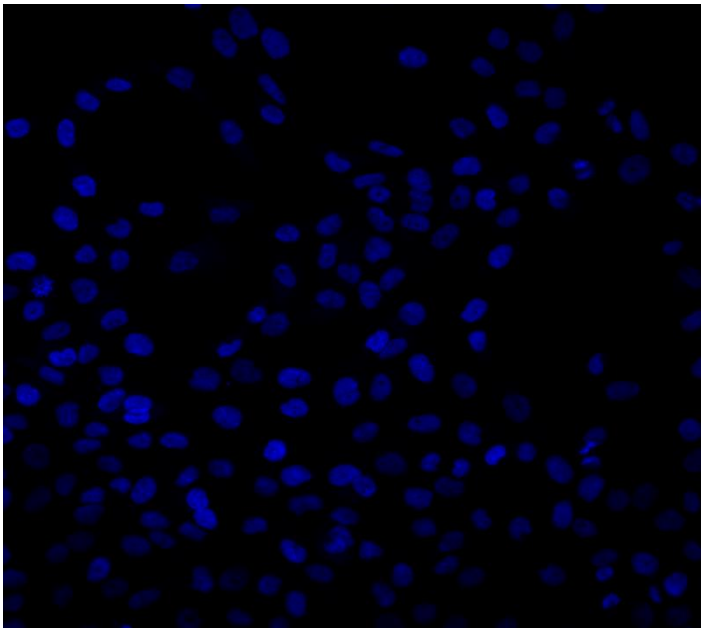
20X (x) 2X digital zoom

Figure S18. Figure 5C – expt 1 – MCF10A Blobe – KCNK9 Flag-Tag +



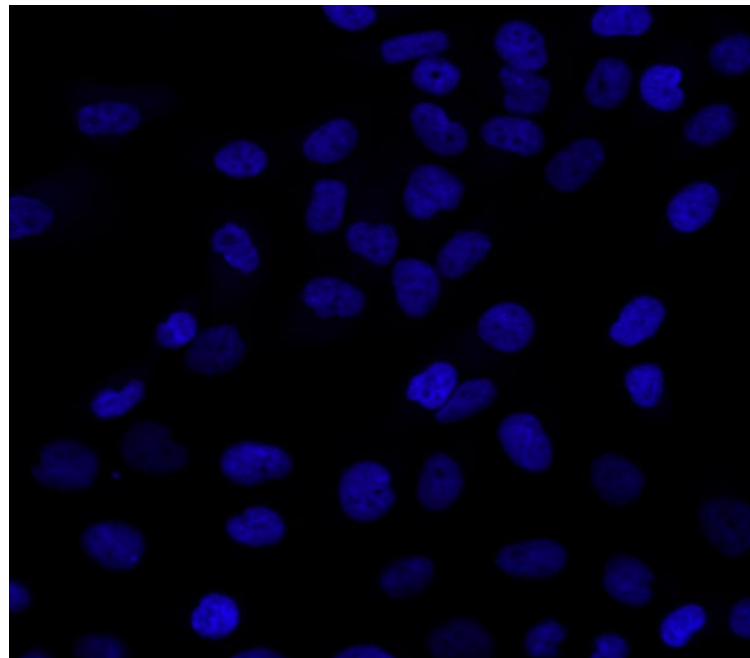
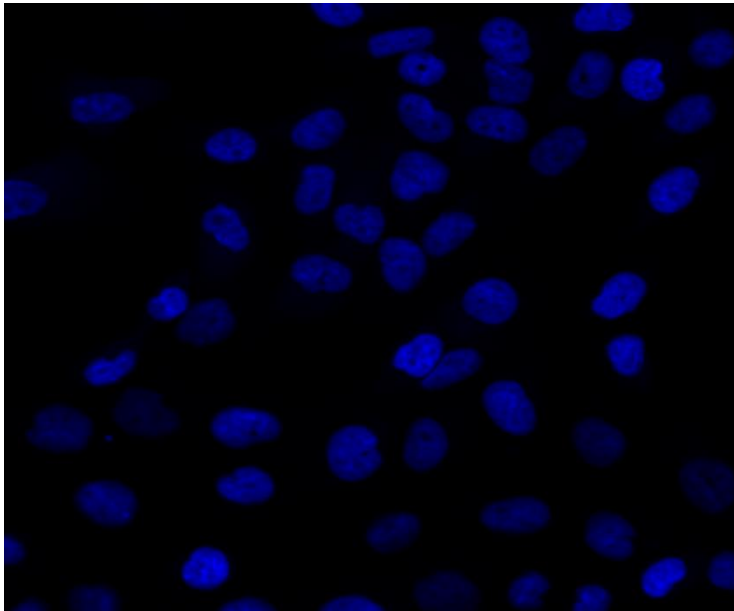
20X (x) 3X digital zoom

Figure S19. Figure 5C – expt 1 – MCF10A Blobe – Empty Flag-Tag +



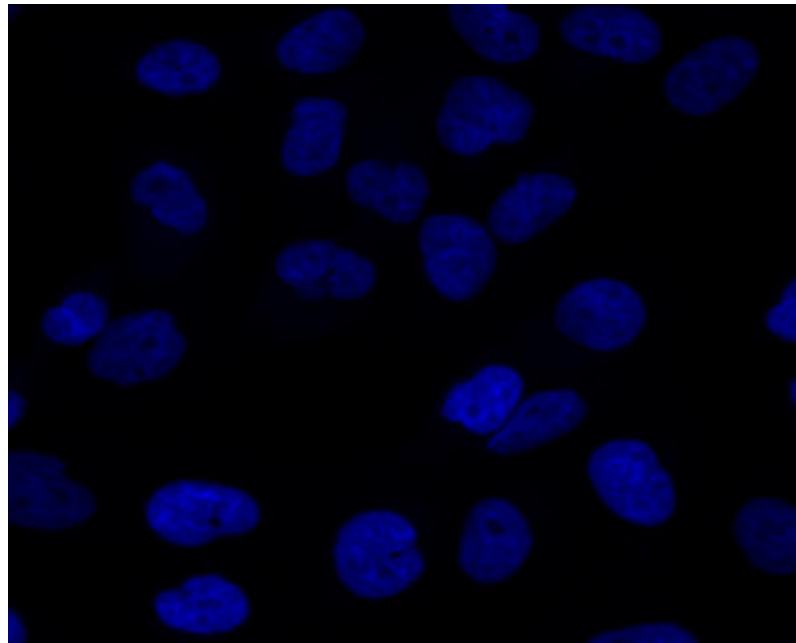
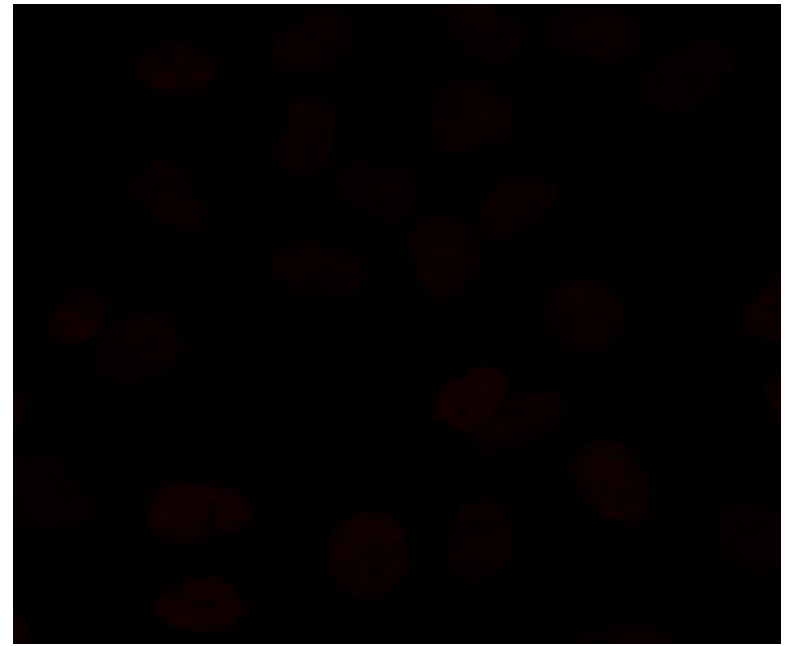
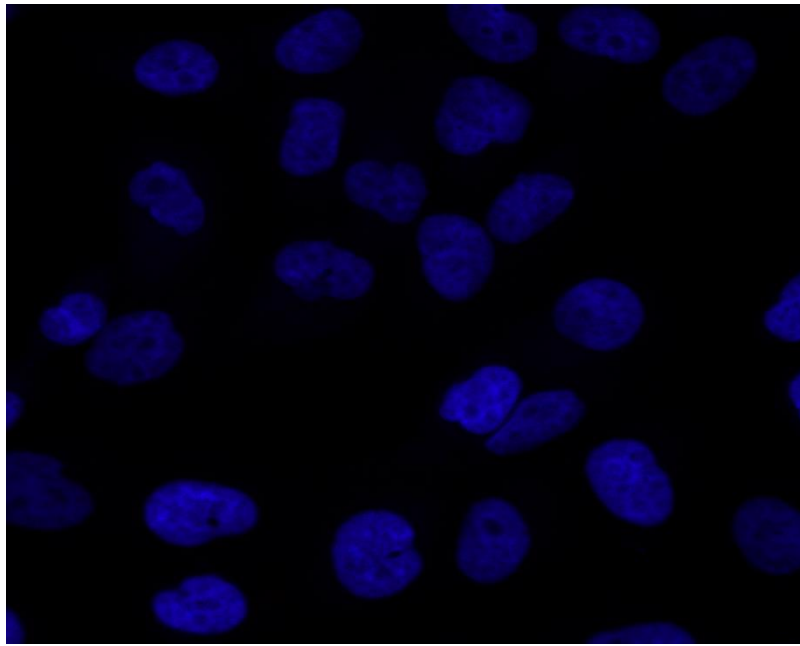
20X

Figure S19. Figure 5C – expt 1 – MCF10A Blobe – Empty Flag-Tag +



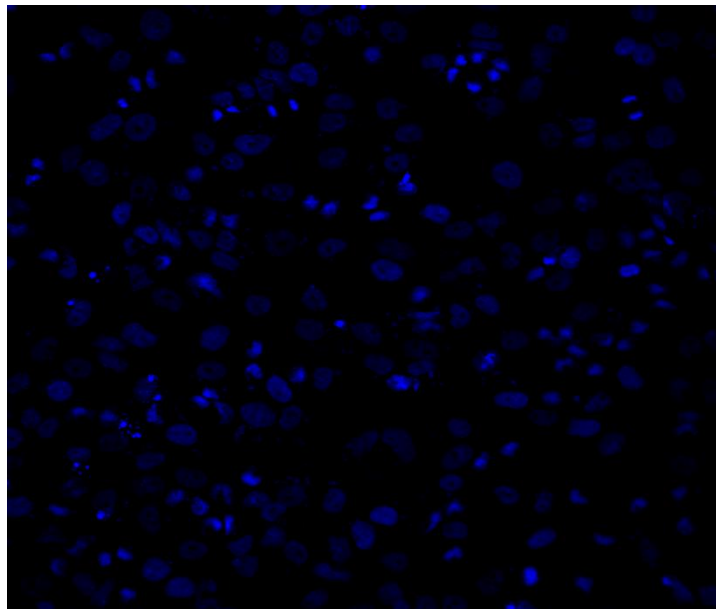
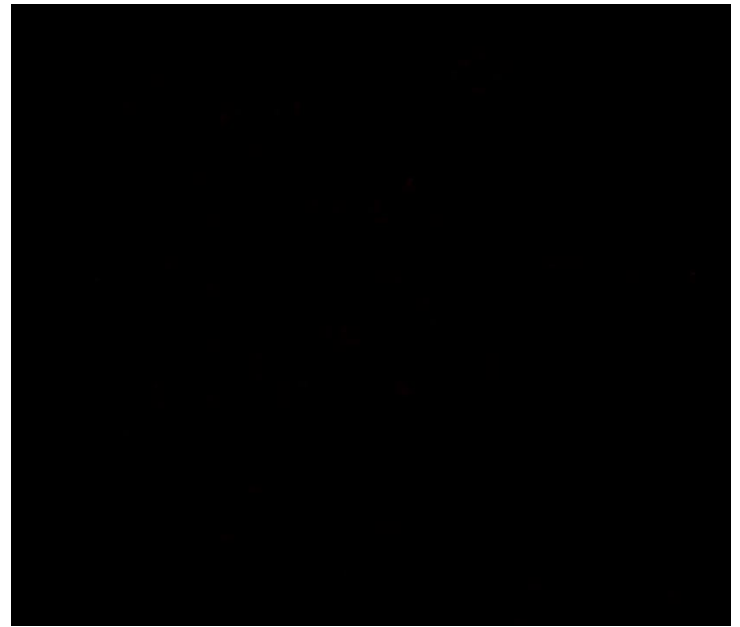
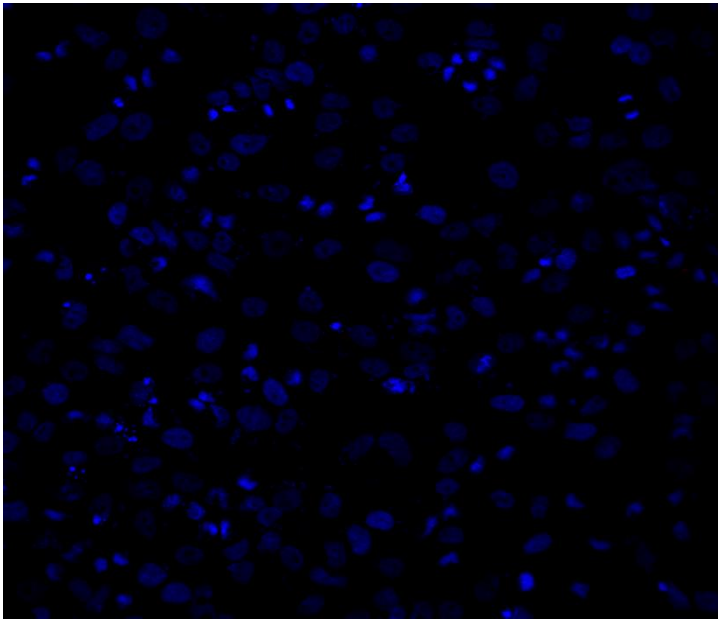
20X (x) 2X digital zoom

Figure S19. Figure 5C – expt 1 – MCF10A Blobe – Empty Flag-Tag +



20X (x) 3X digital zoom

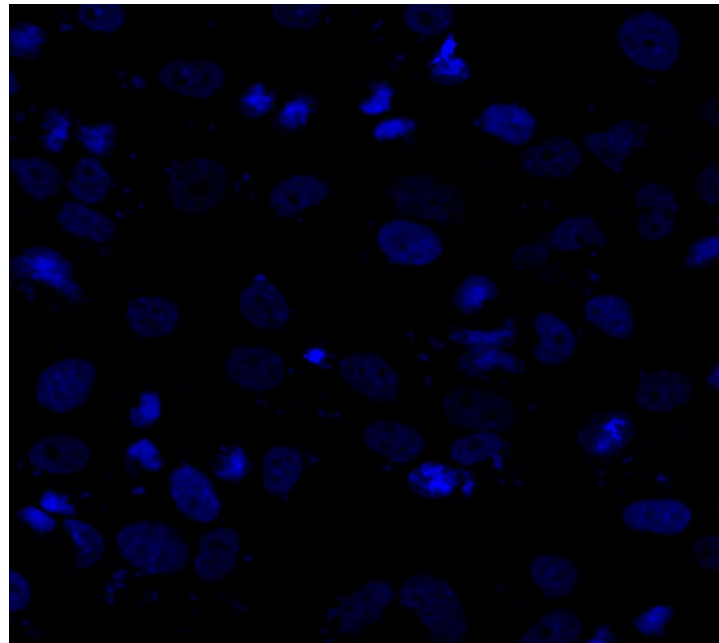
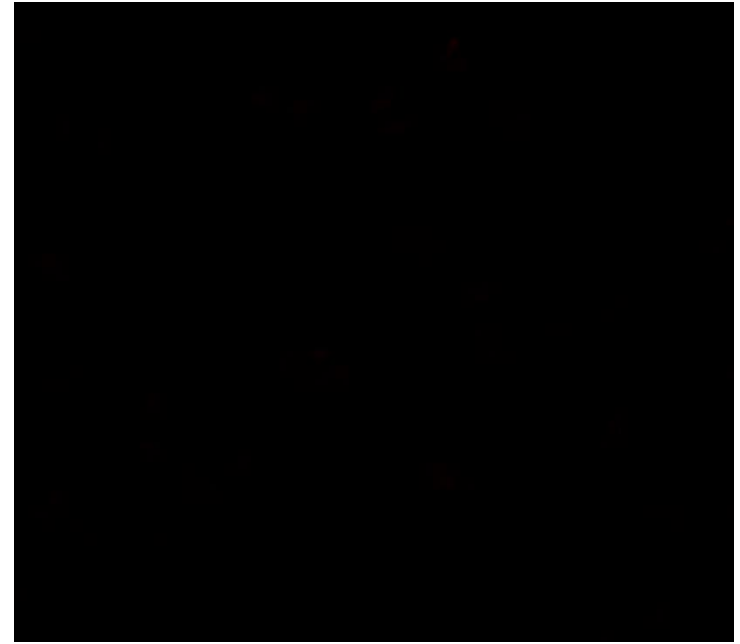
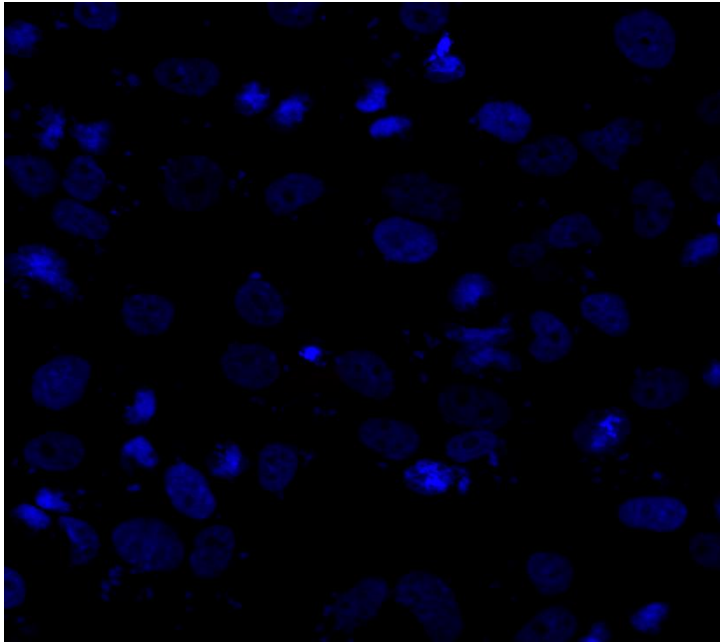
Figure S20. Figure 5C – expt 1 – MCF10A Blobe – Transfection Reagent alone +



20X

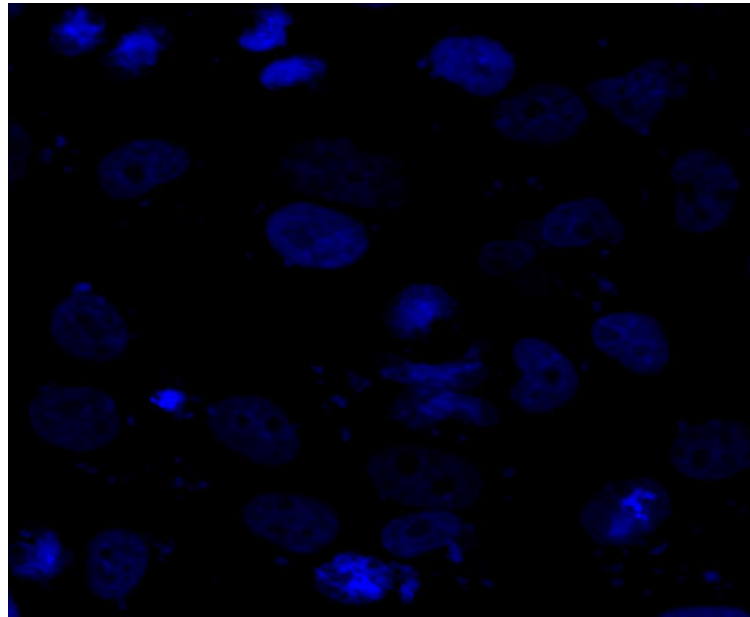
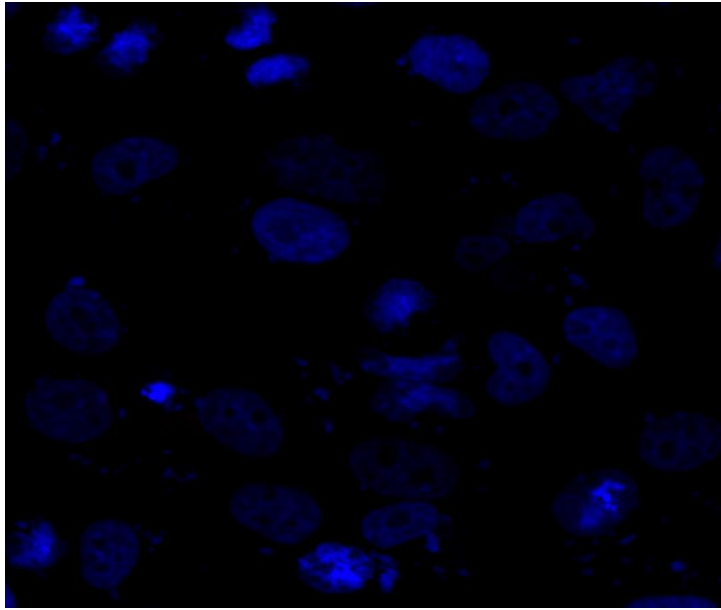


Figure S20. Figure 5C – expt 1 – MCF10A Blobe – Transfection Reagent alone +



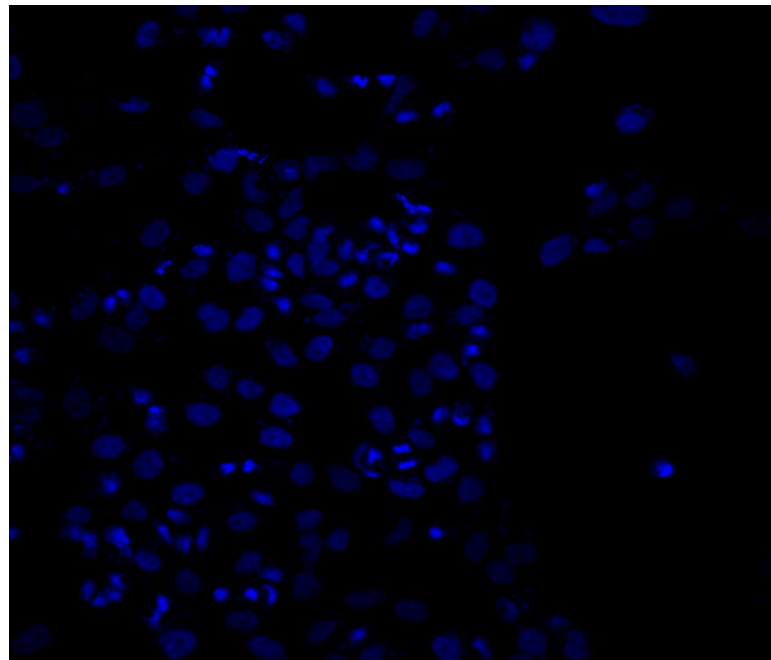
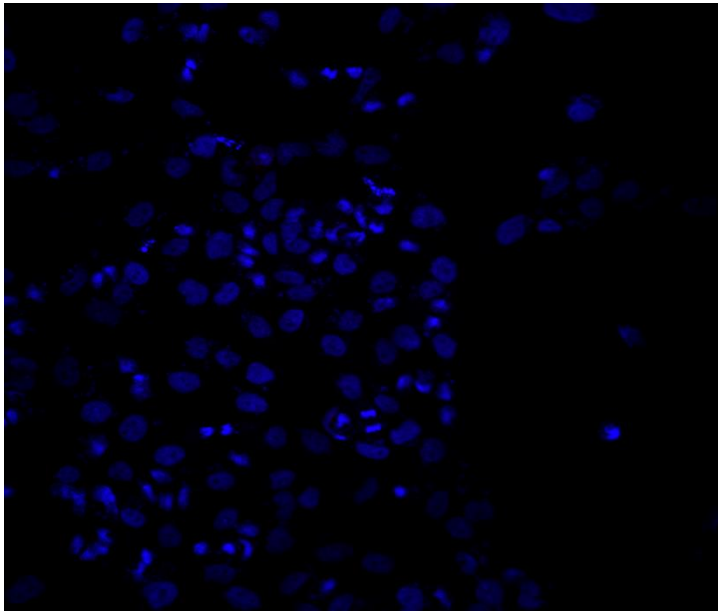
20X (x) 2X digital zoom

Figure S20. Figure 5C – expt 1 – MCF10A Blobe – Transfection Reagent alone +



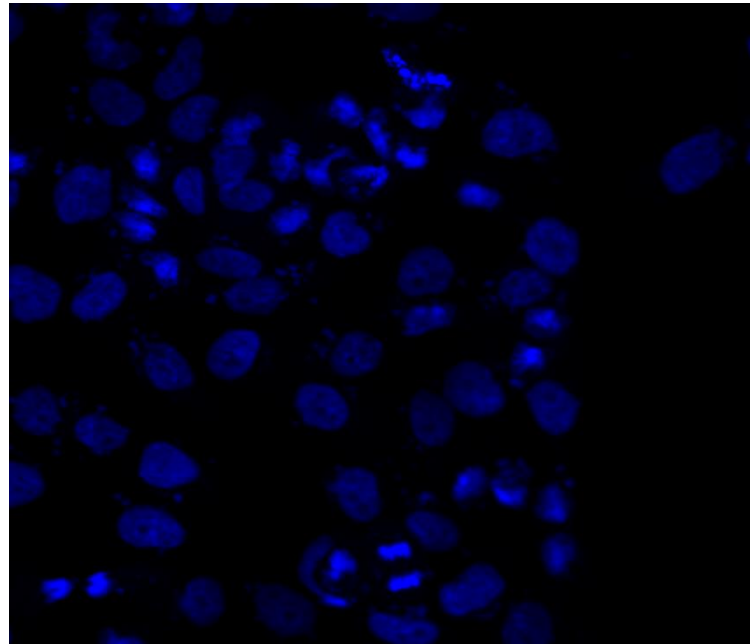
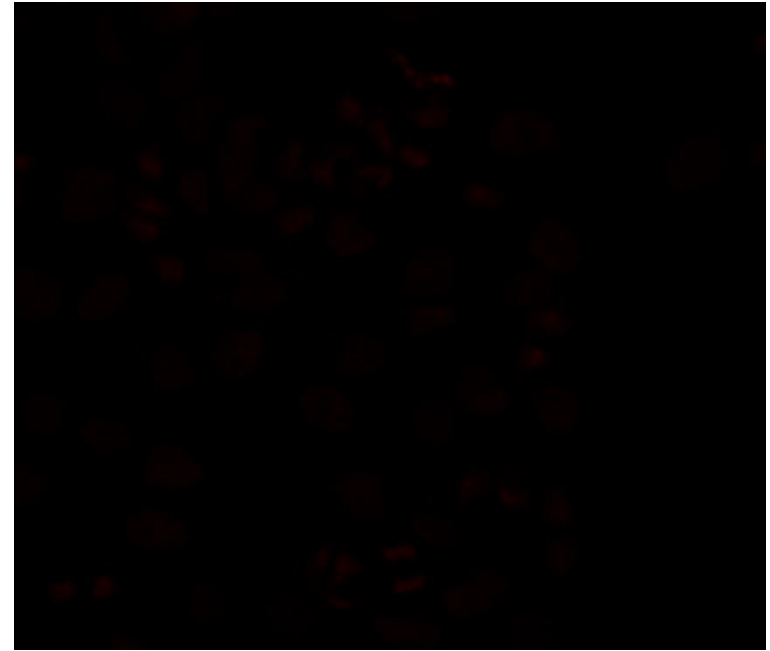
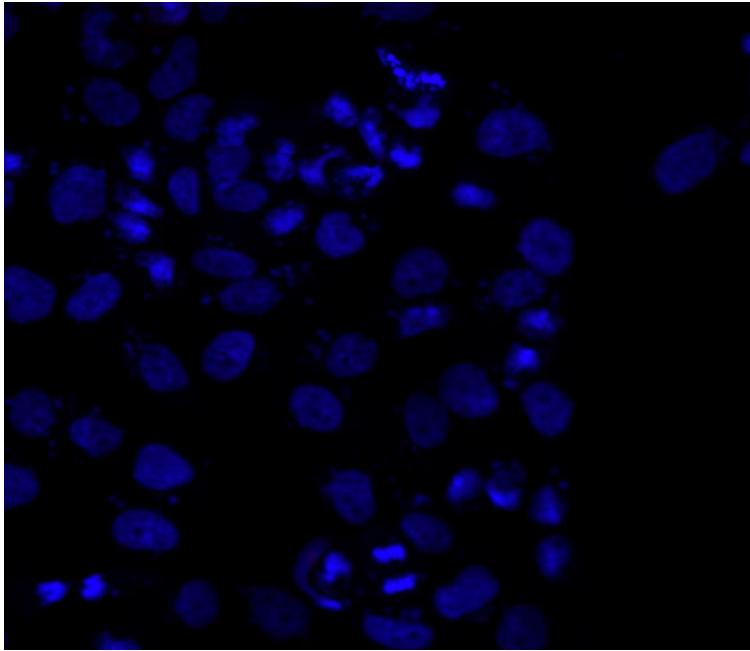
20X (x) 3X digital zoom

Figure S21. Figure 5C – expt 1 – MCF10A Blobe – Control/No Transfection +



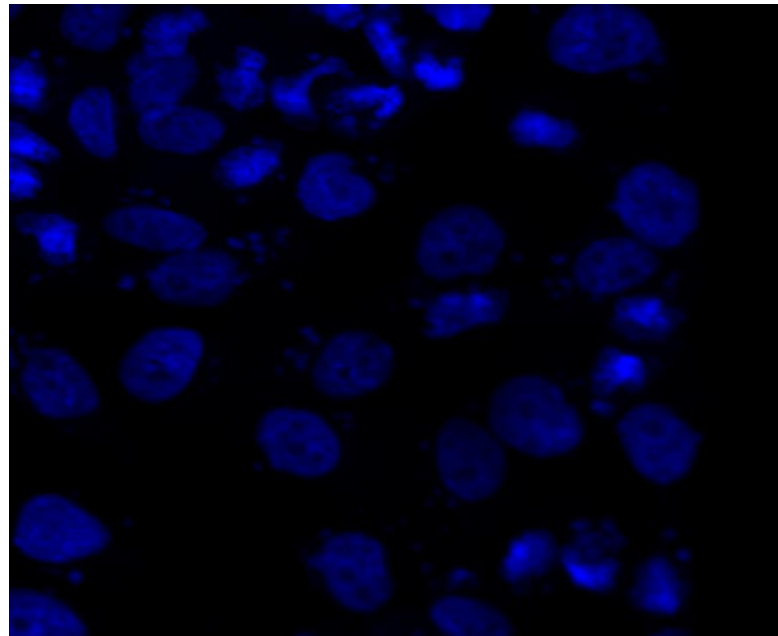
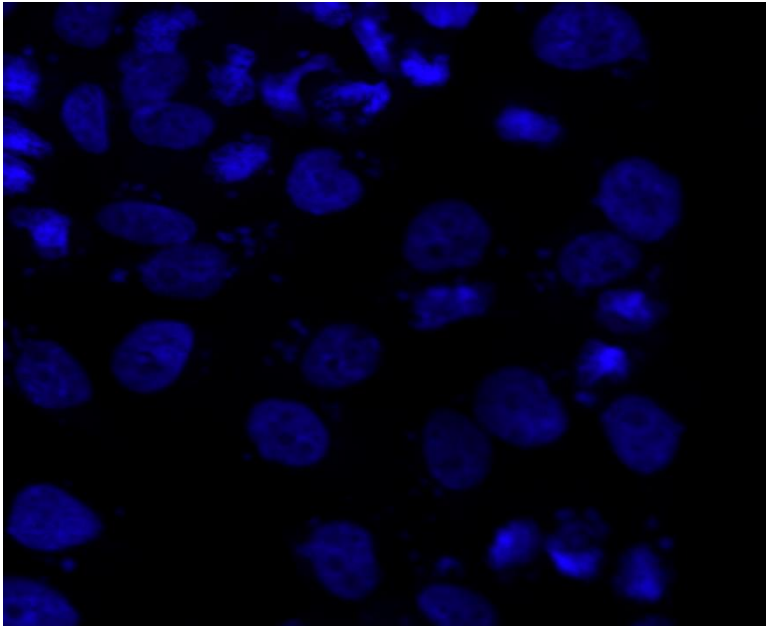
20X

Figure S21. Figure 5C – expt 1 – MCF10A Blobe – Control/No Transfection +



20X (x) 2X digital zoom

Figure S21. Figure 5C – expt 1 – MCF10A Blobe – Control/No Transfection +



20X (x) 3X digital zoom

Figure S22. Current Figure 5B and former Figure 6A – VDAC

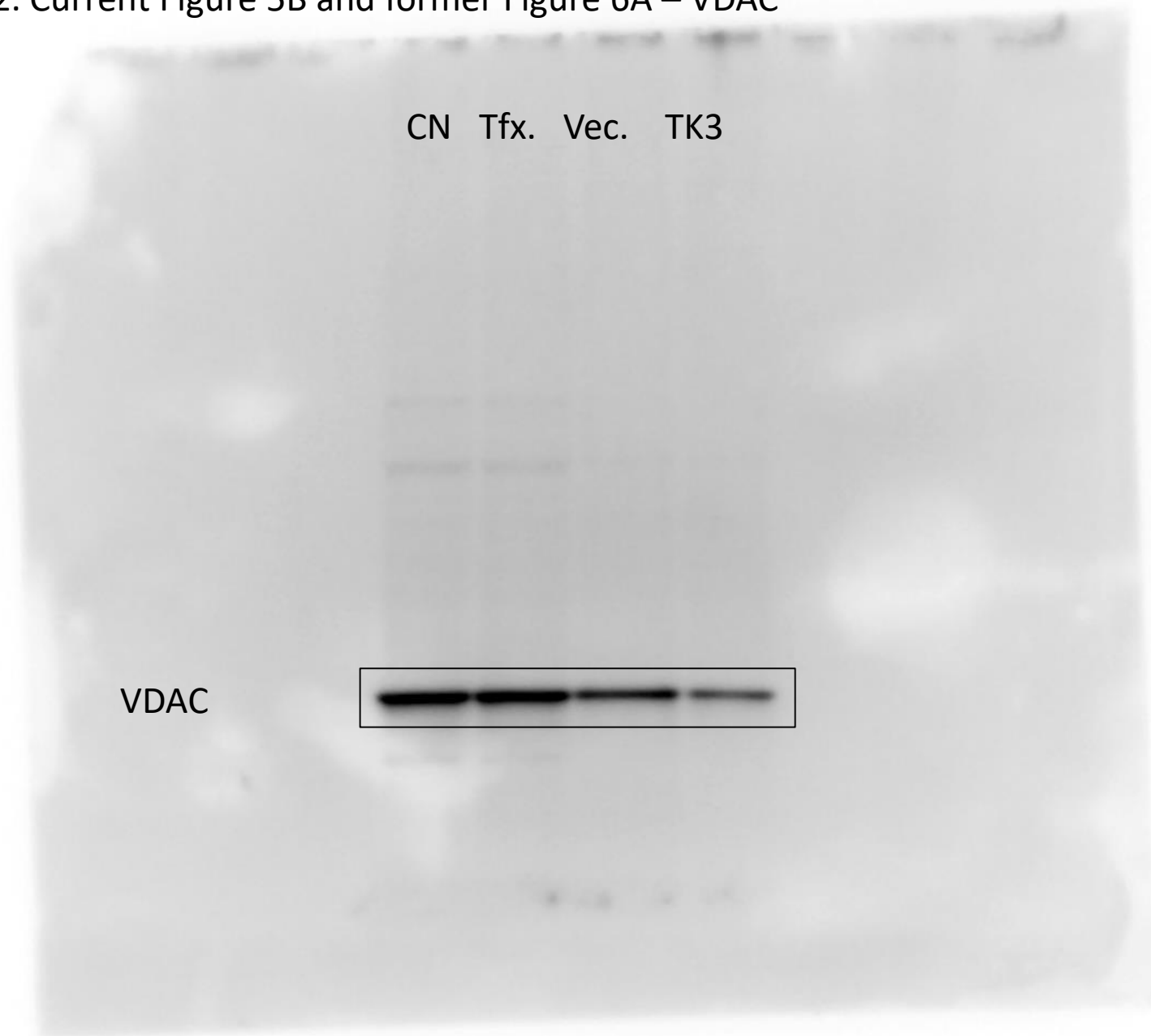


Figure S23. Current Figure 6A and Prior Figure 5D – HEK293 – TASK3 – 42KDa

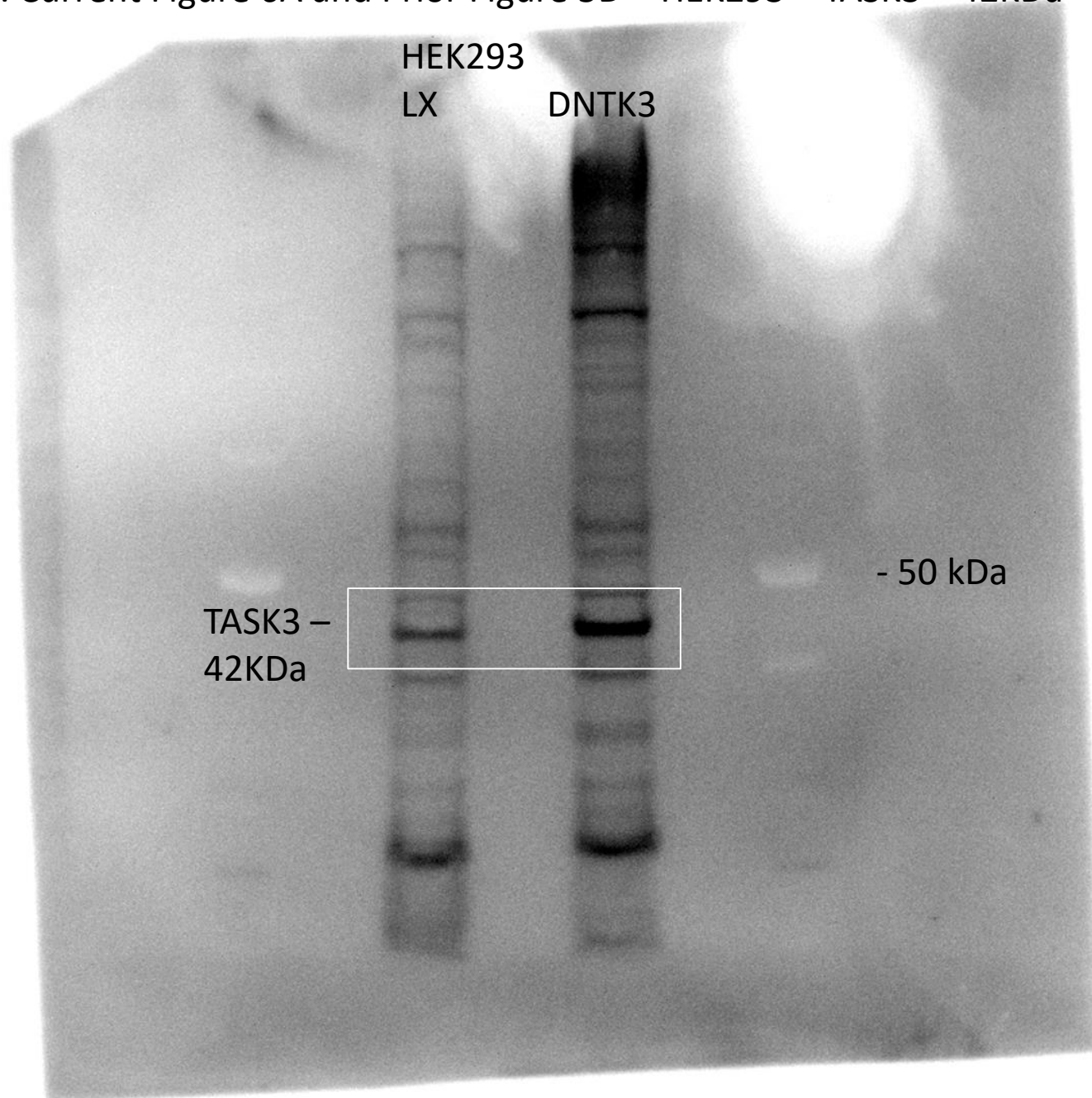


Figure S24. Current Figure 6A and Prior Figure 5D – HEK293 –GAPDH

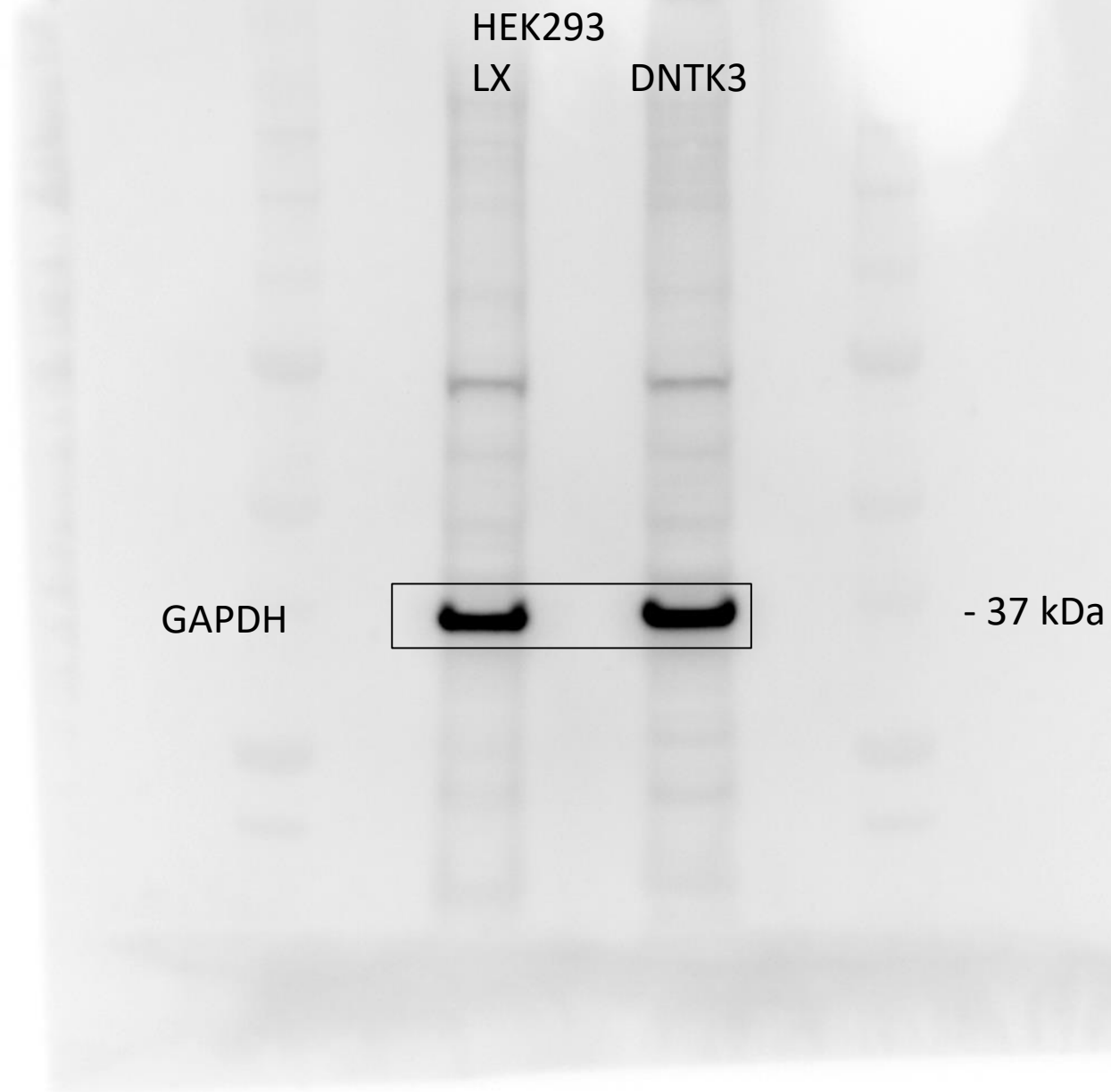




Figure S25. Current Figure 6A and Prior Figure 5D – MDA231 – TASK3 – 42KDa

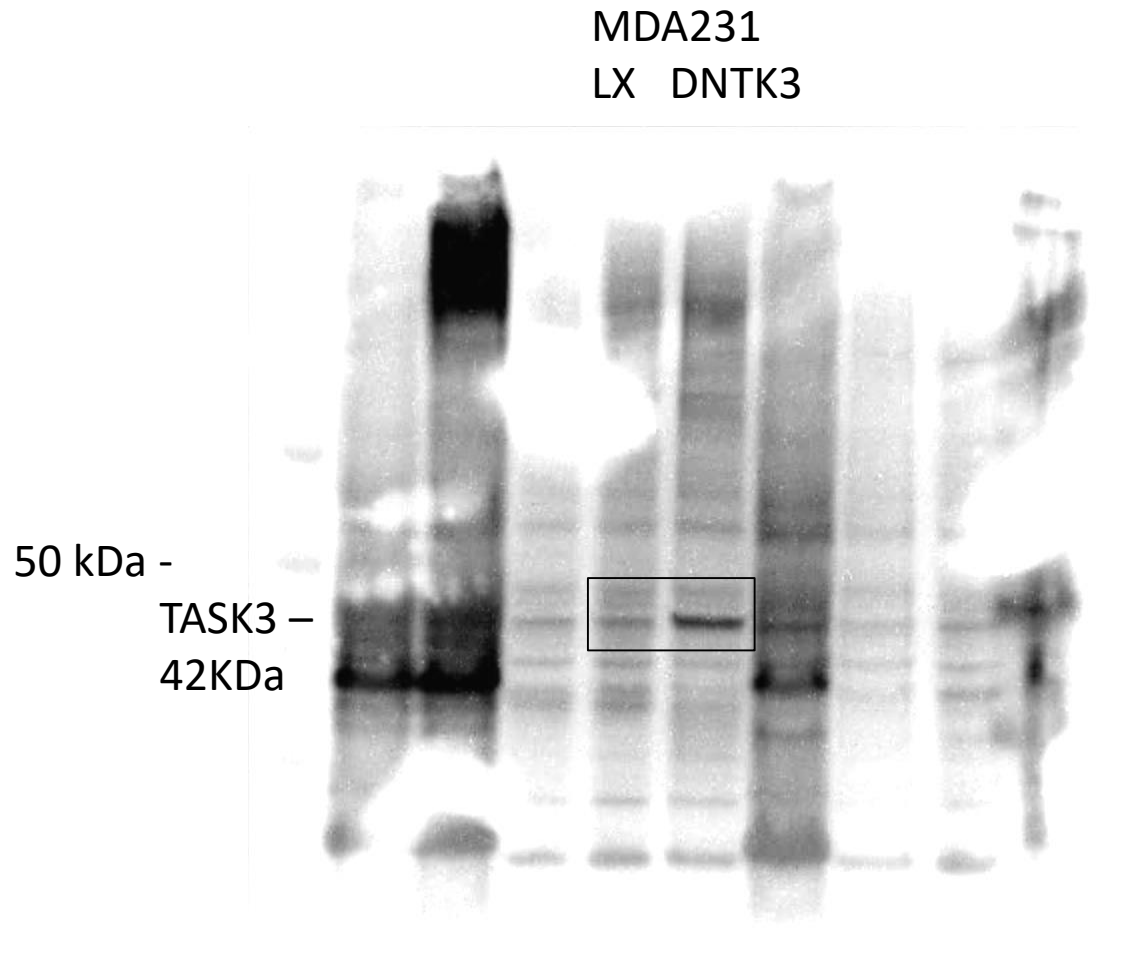


Figure S26. Current Figure 6A and Prior Figure 5D – MDA231 – GAPDH

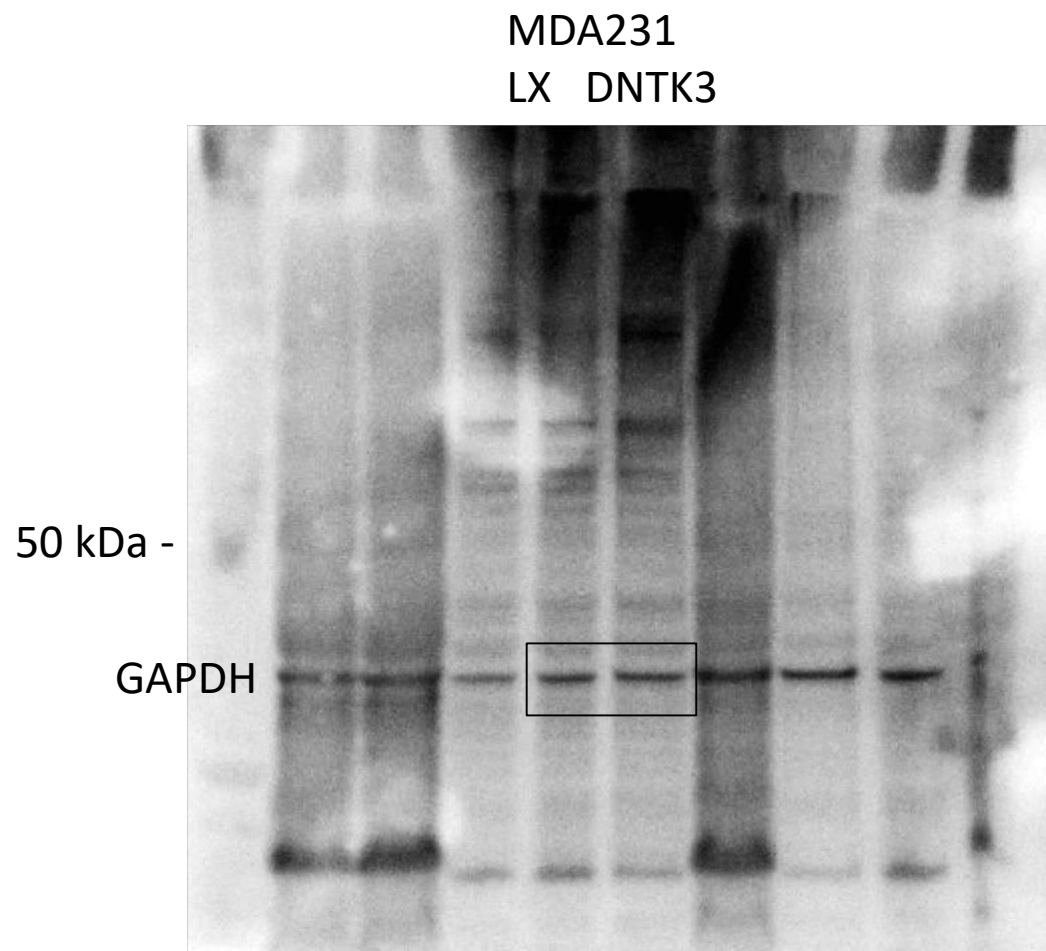


Figure S27. Current Figure 6A and Prior Figure 5D – DKAT – TASK3

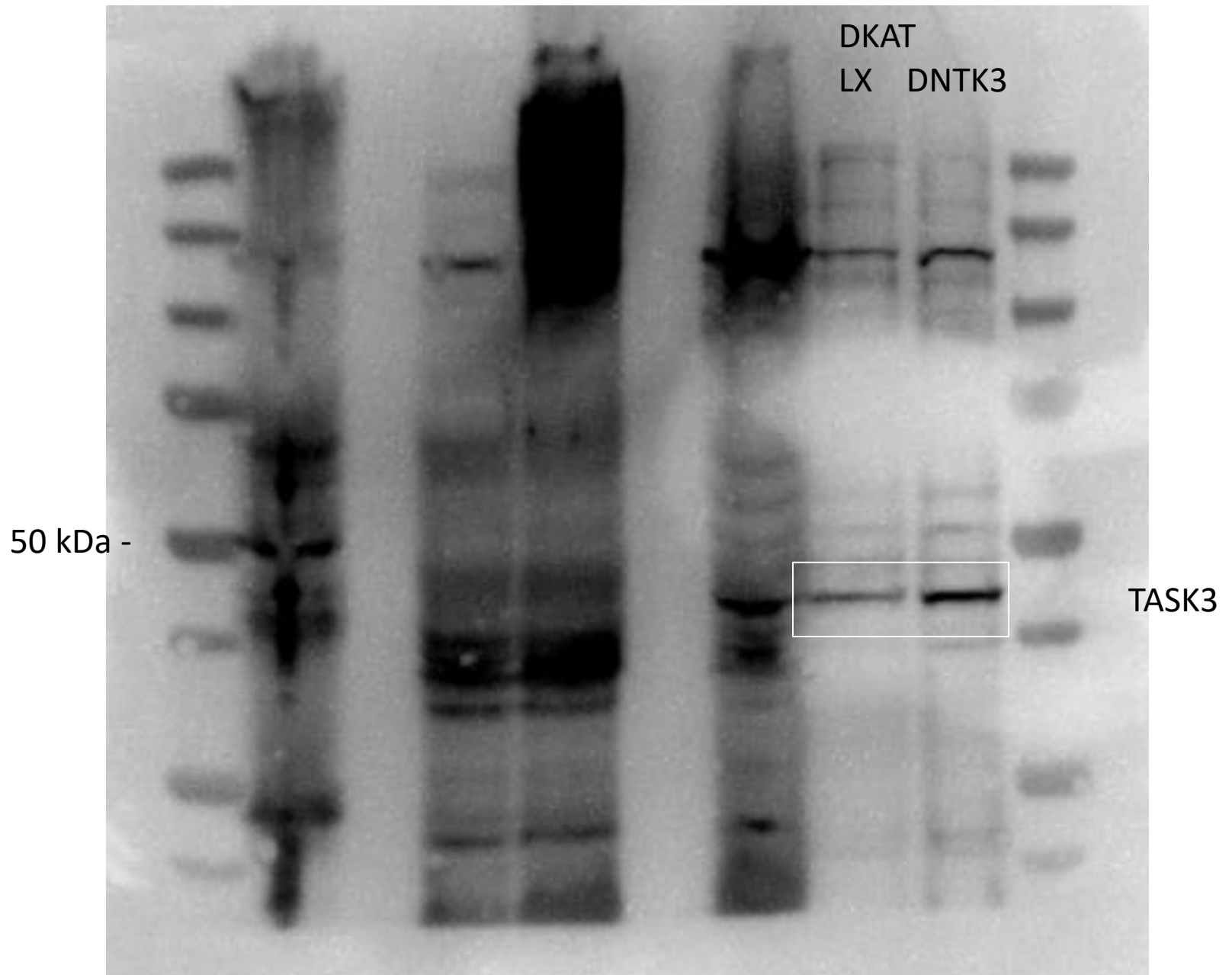


Figure S28. Current Figure 6A and Prior Figure 5D – DKAT – GAPDH

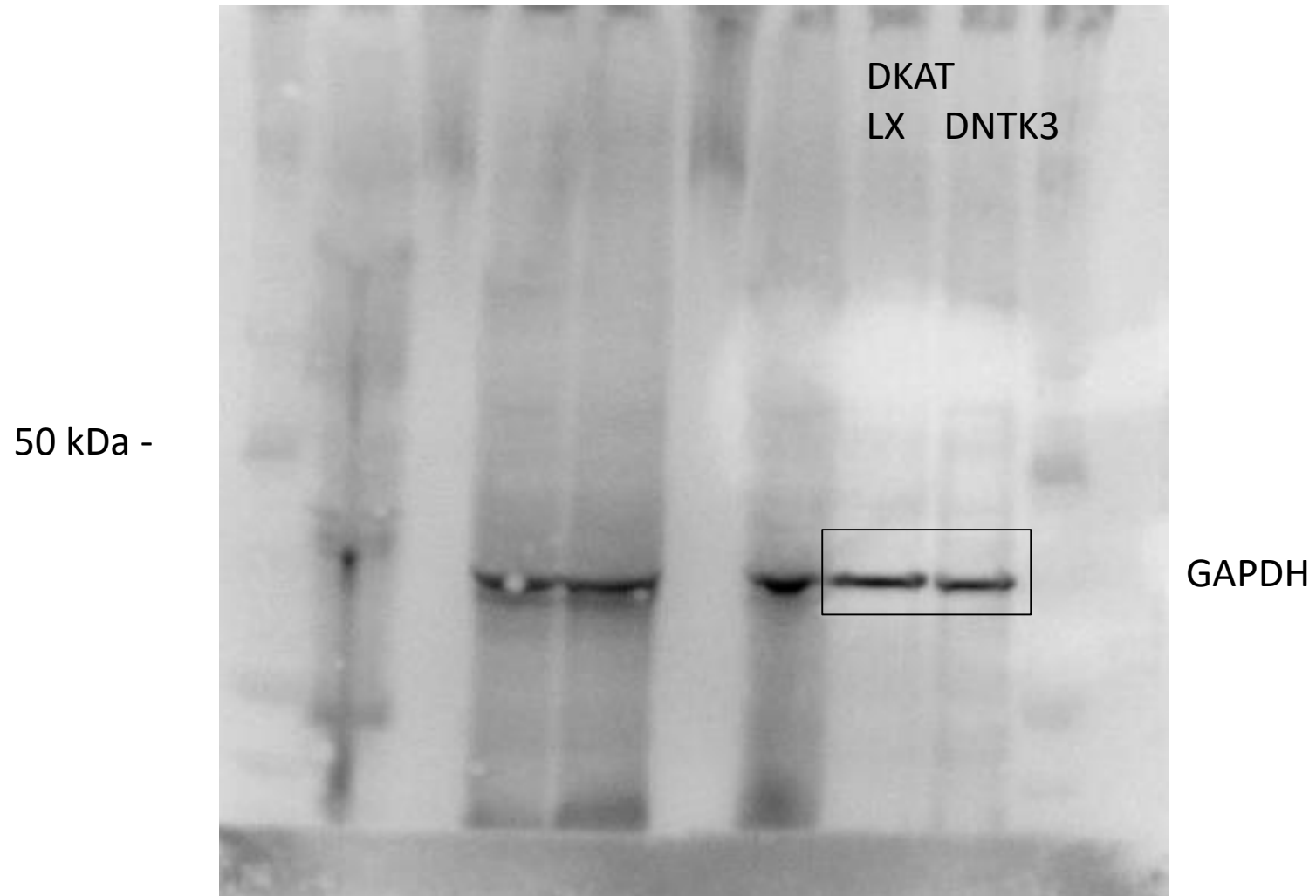


Figure S29. Current Figure 6A and Prior Figure 5D – SUM225 – TASK3 – 42KDa

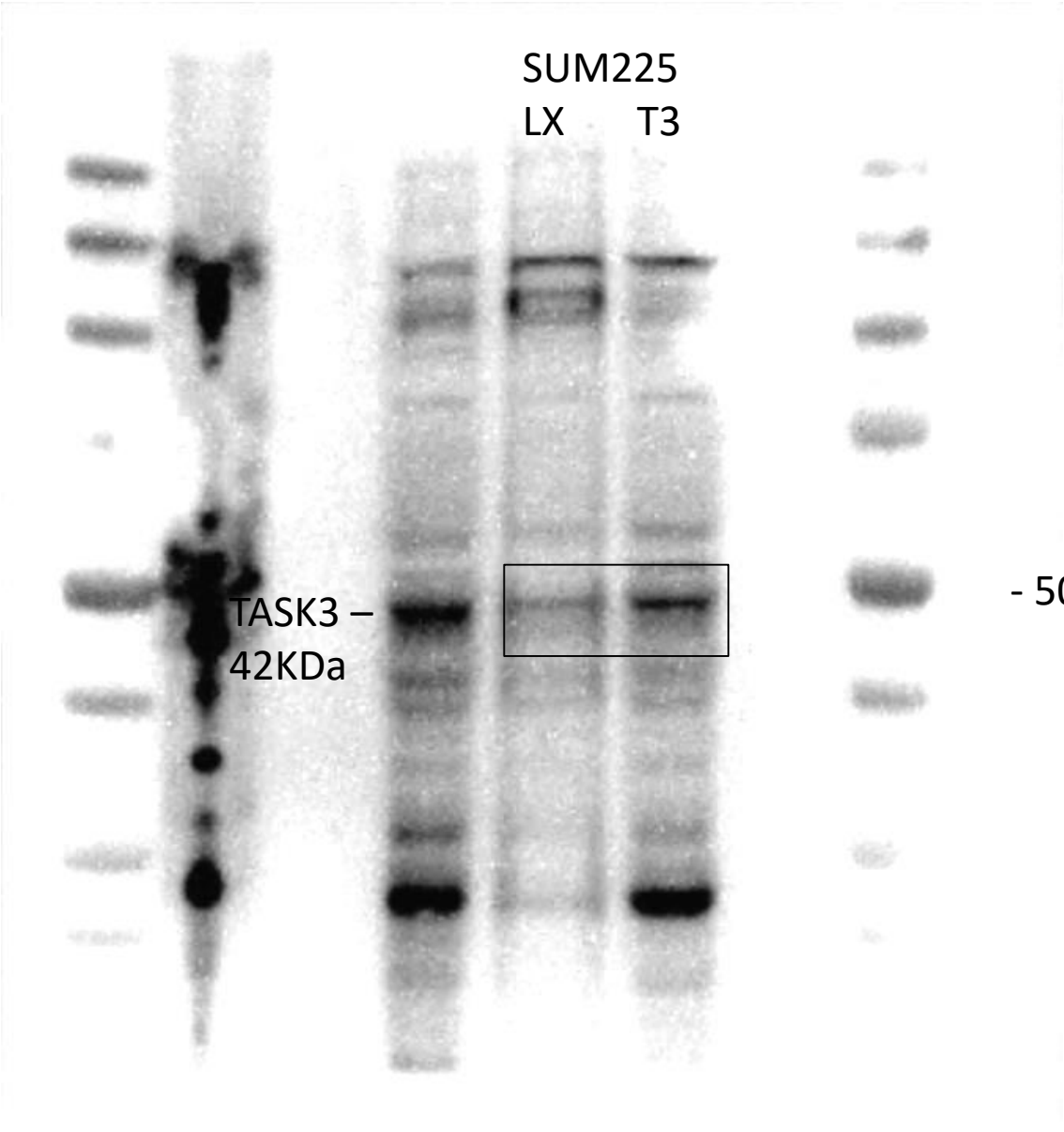


Figure S30. Current Figure 6A and Prior Figure 5D – SUM225 – GAPDH

