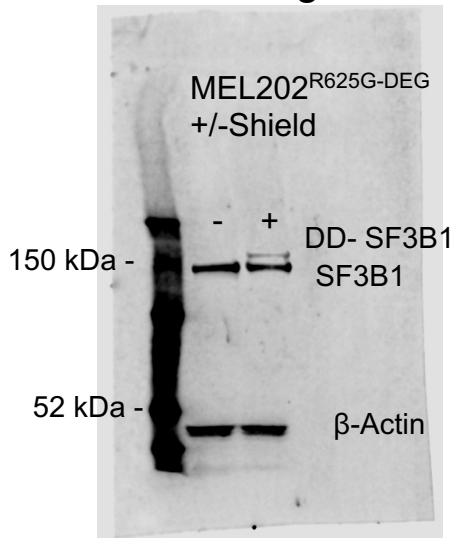


Source Data- Uncropped scans with size markers

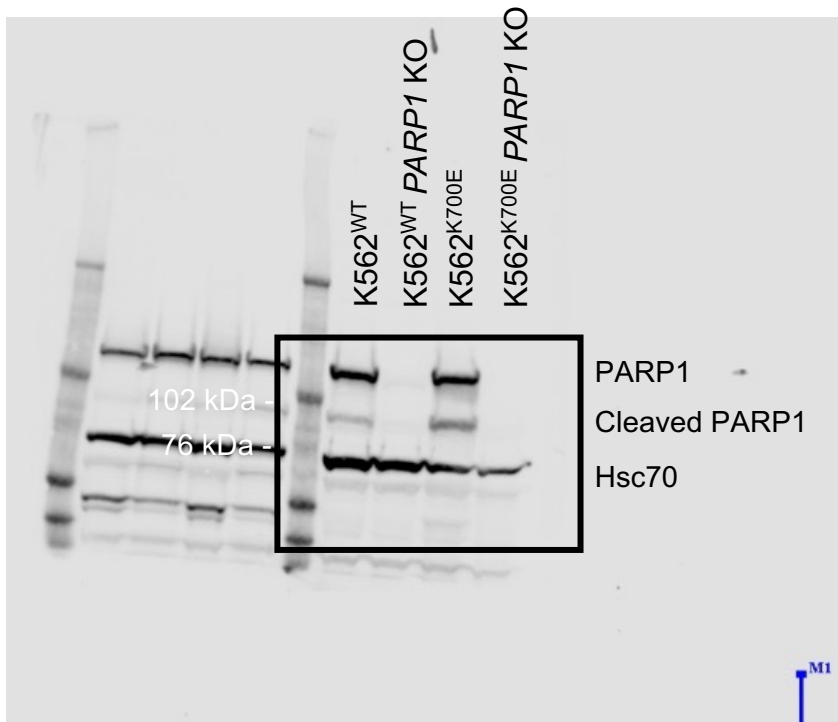
MEL202^{R625G} labelled as C37 in some blots

MEL202^{R625G} labelled as MEL202 in some blots

Extended Data Fig. 1f

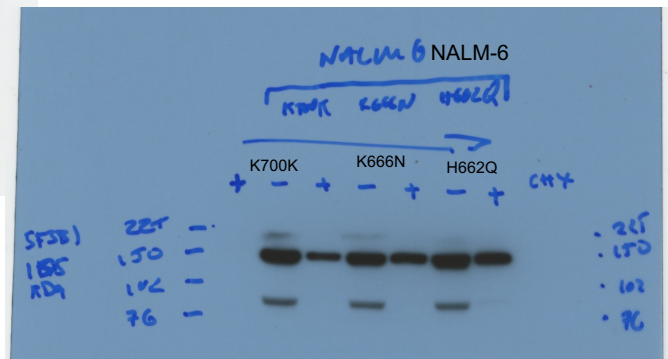
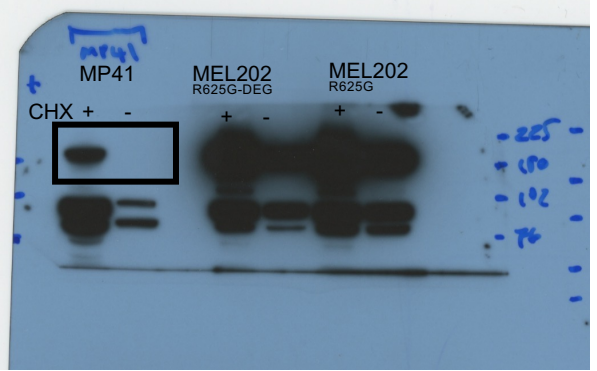
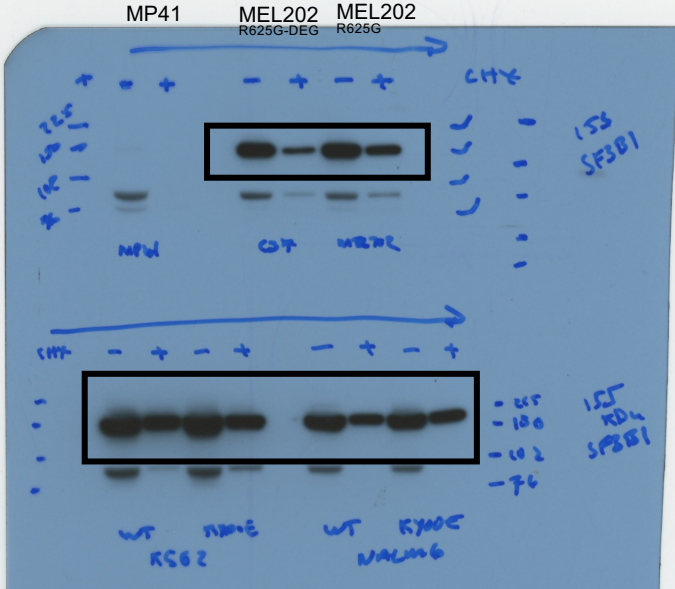


Extended Data Fig. 1j

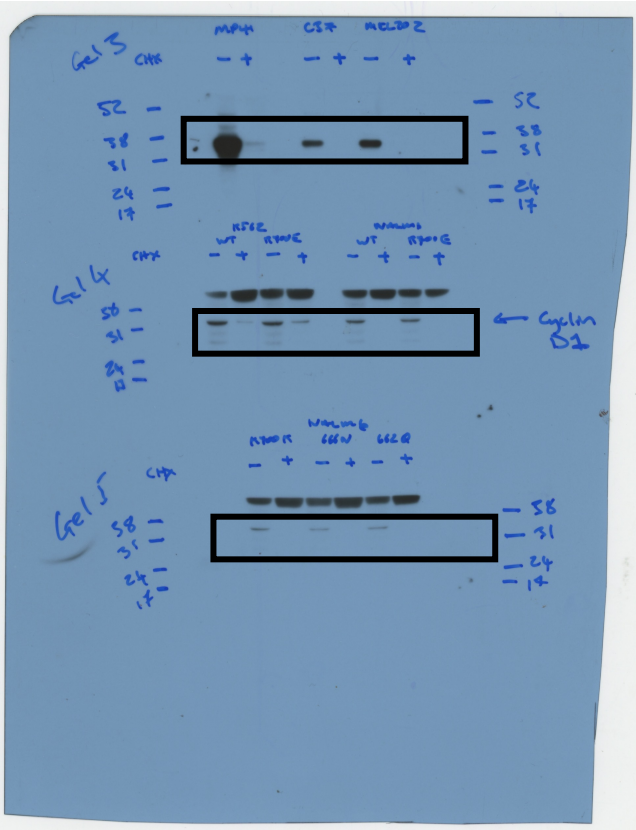


Extended Data Fig. 2e

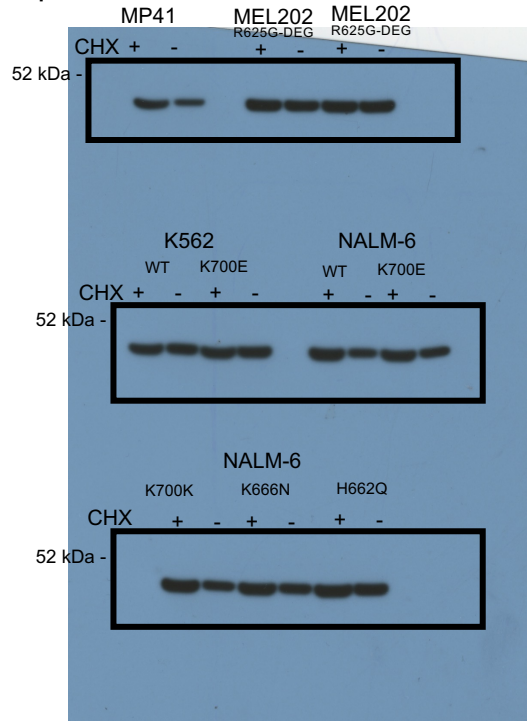
SF3B1



CCND1



β -actin



Extended Data Fig. 3e

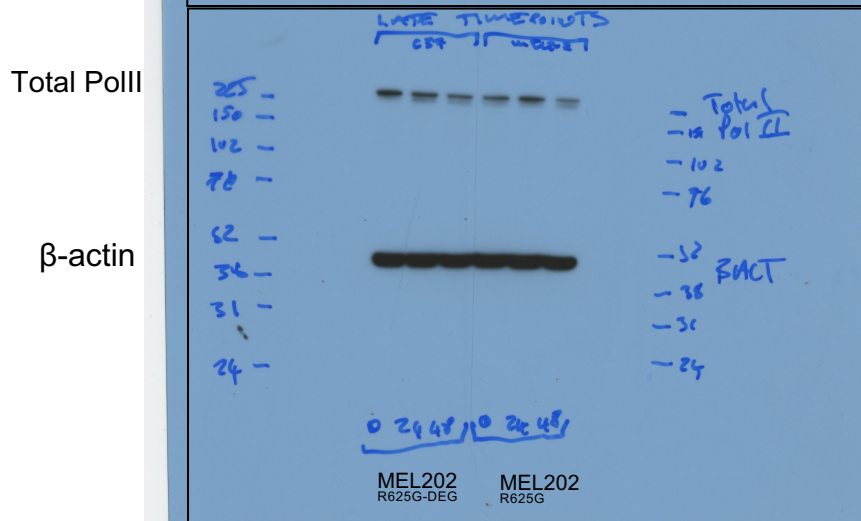
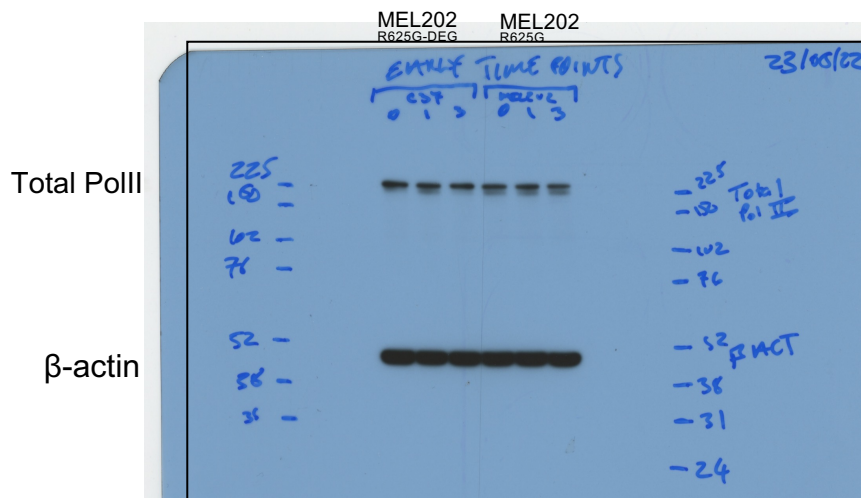
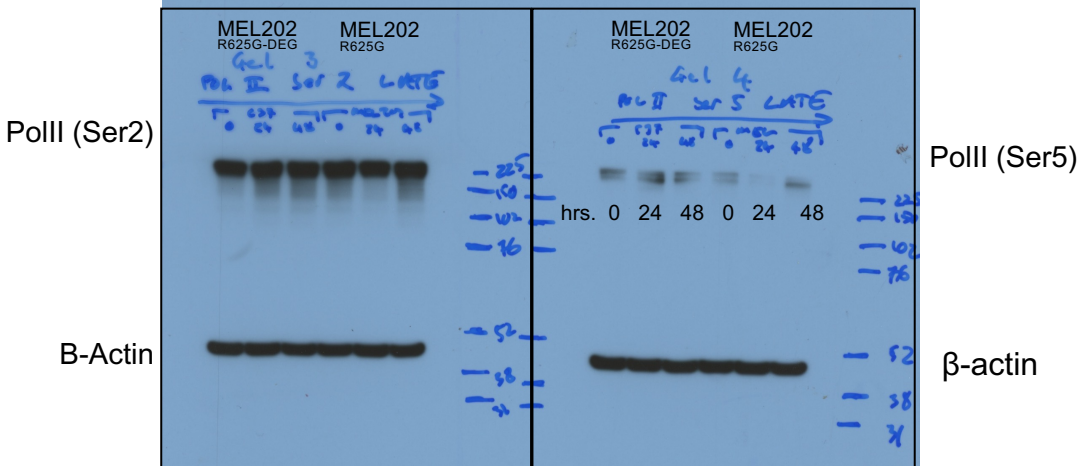
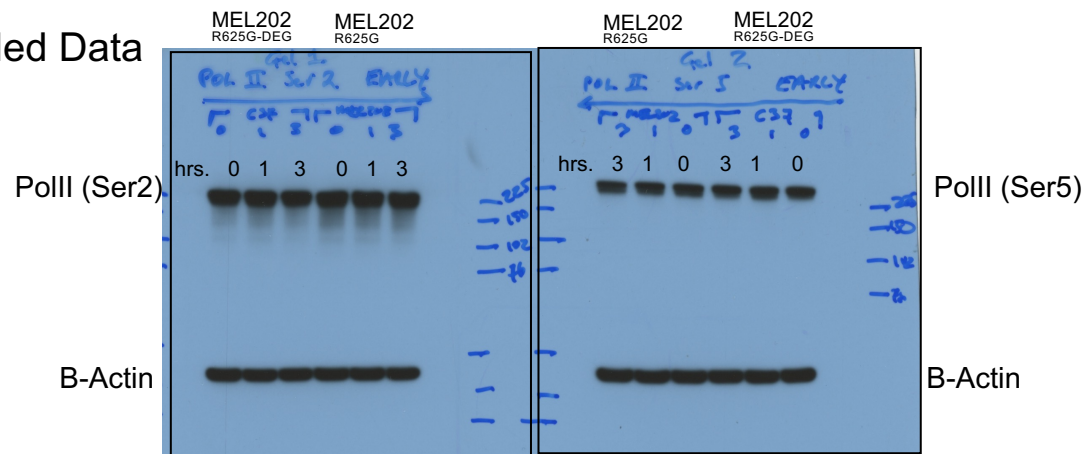
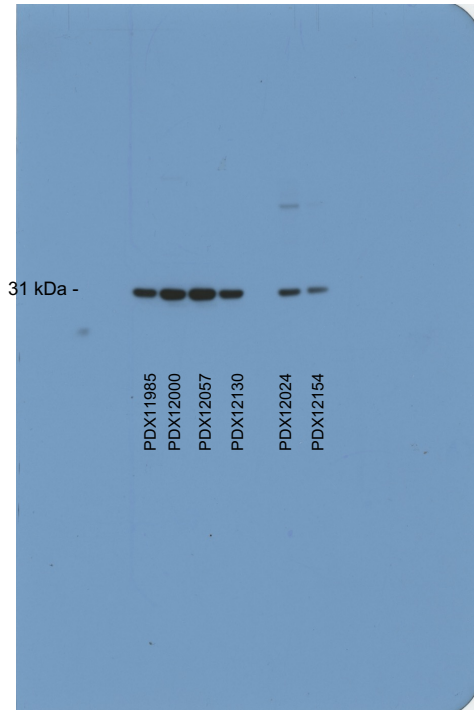


Figure 2f

CINP



β -actin

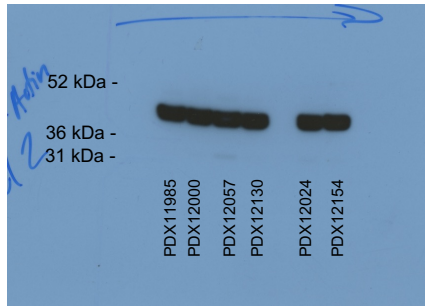
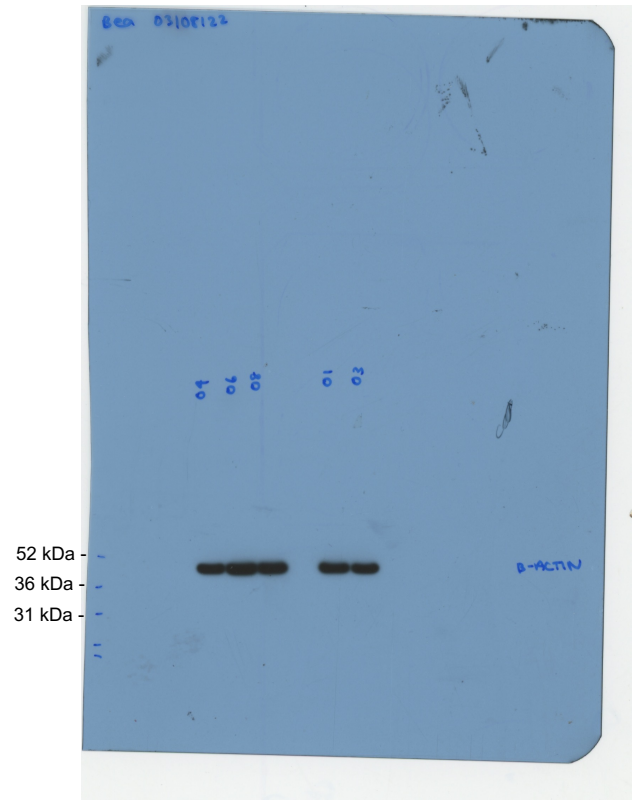
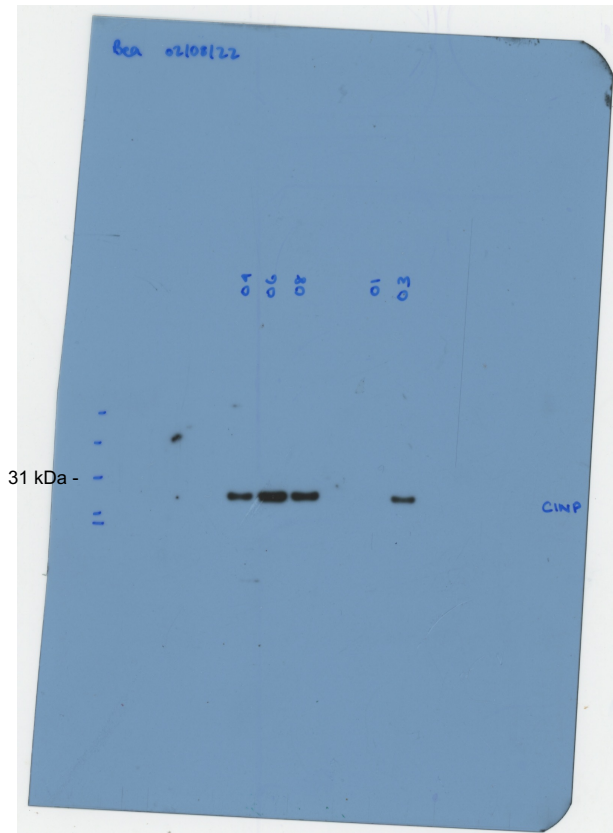
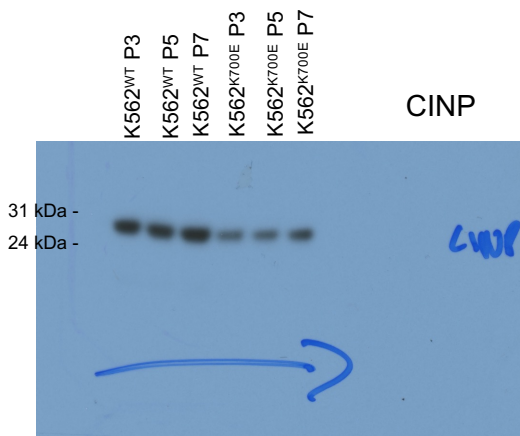
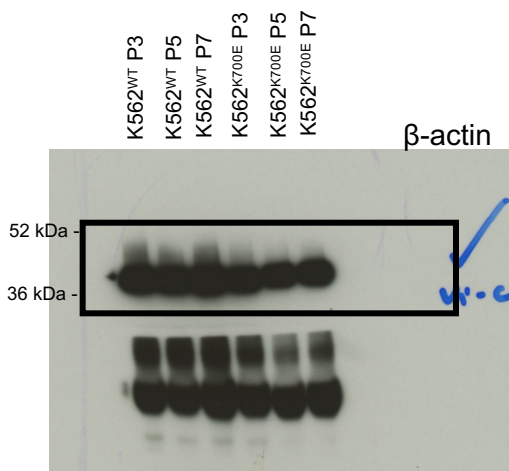
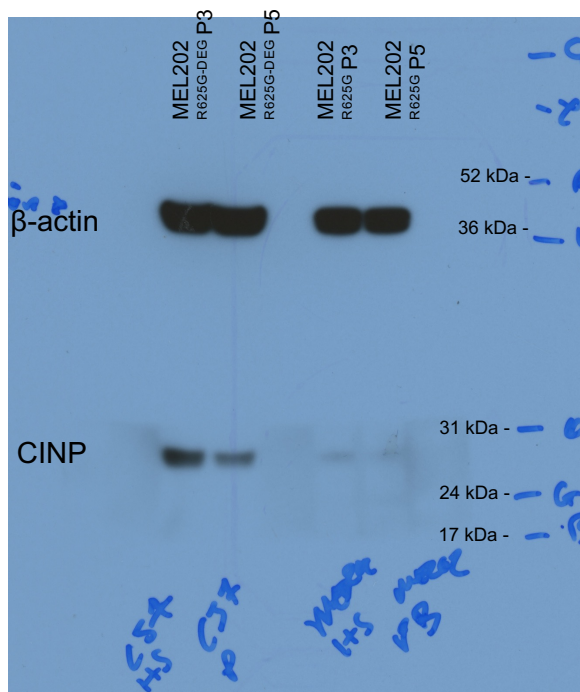


Figure 2h



Extended Data Fig. 4b

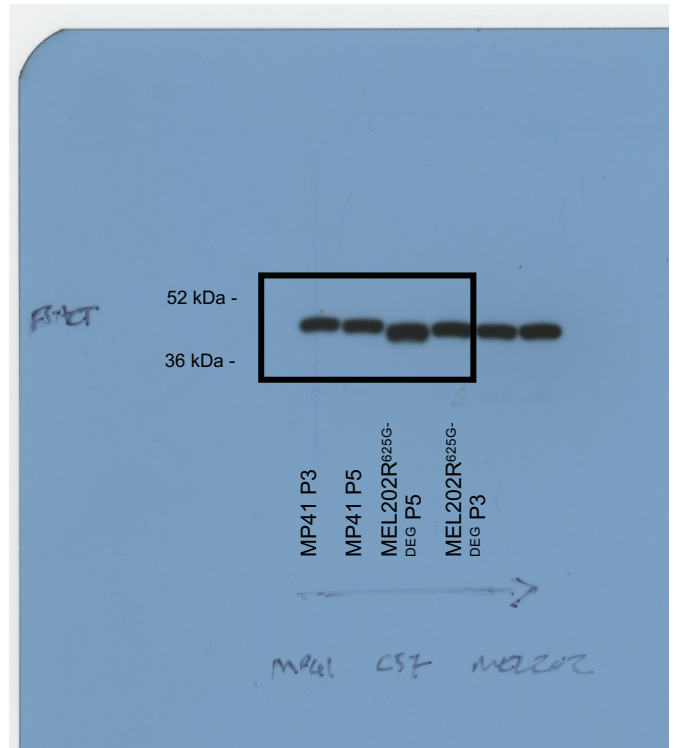


Extended Data Fig. 4b

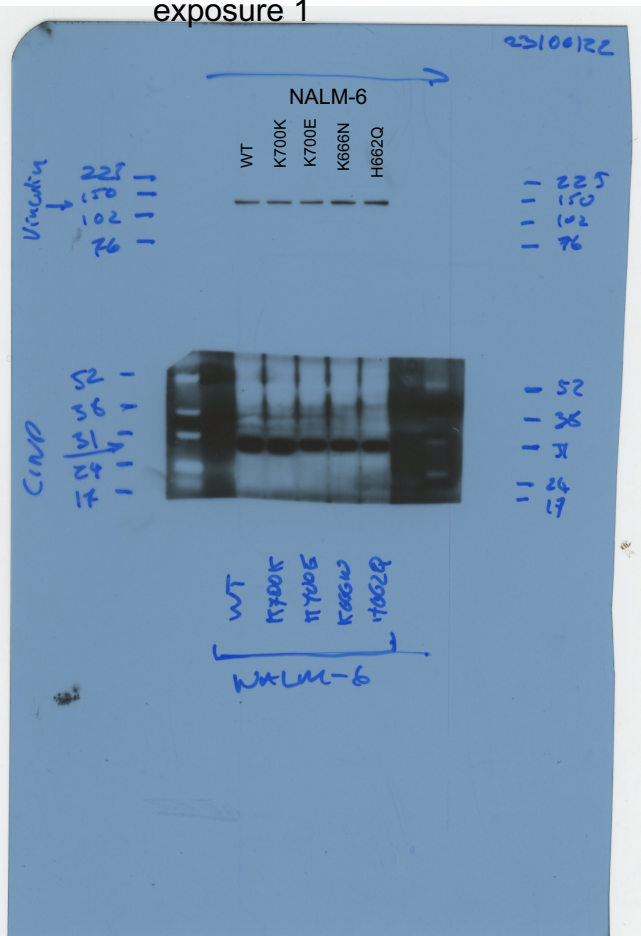
CINP MP41



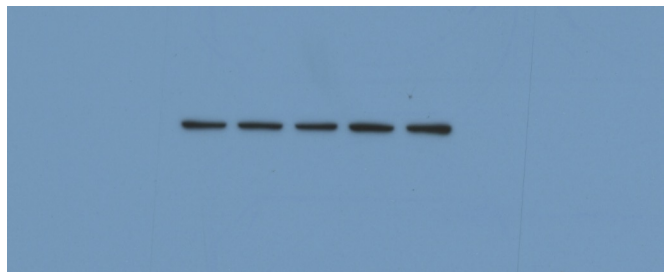
β-actin



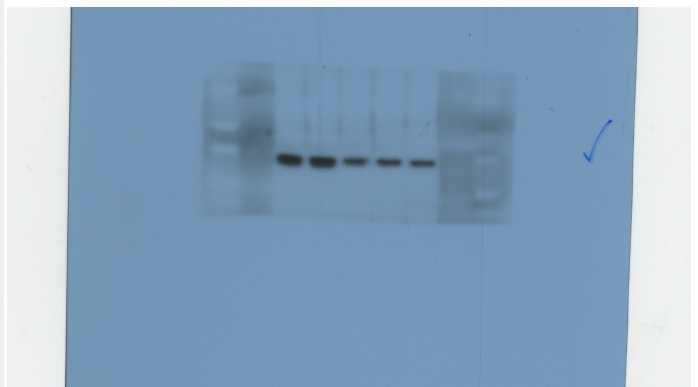
CINP NALM-6 series
exposure 1



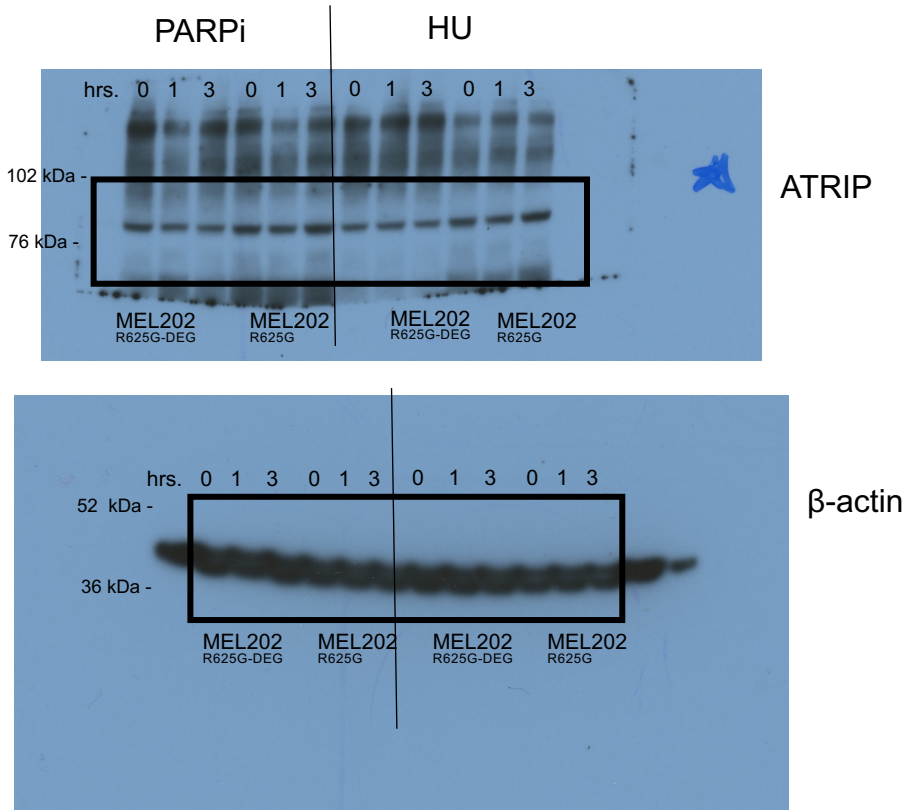
vinculin NALM-6 series exposure used



CINP NALM-6 series exposure used



Extended Data Fig. 4c



Extended Data Fig. 4d

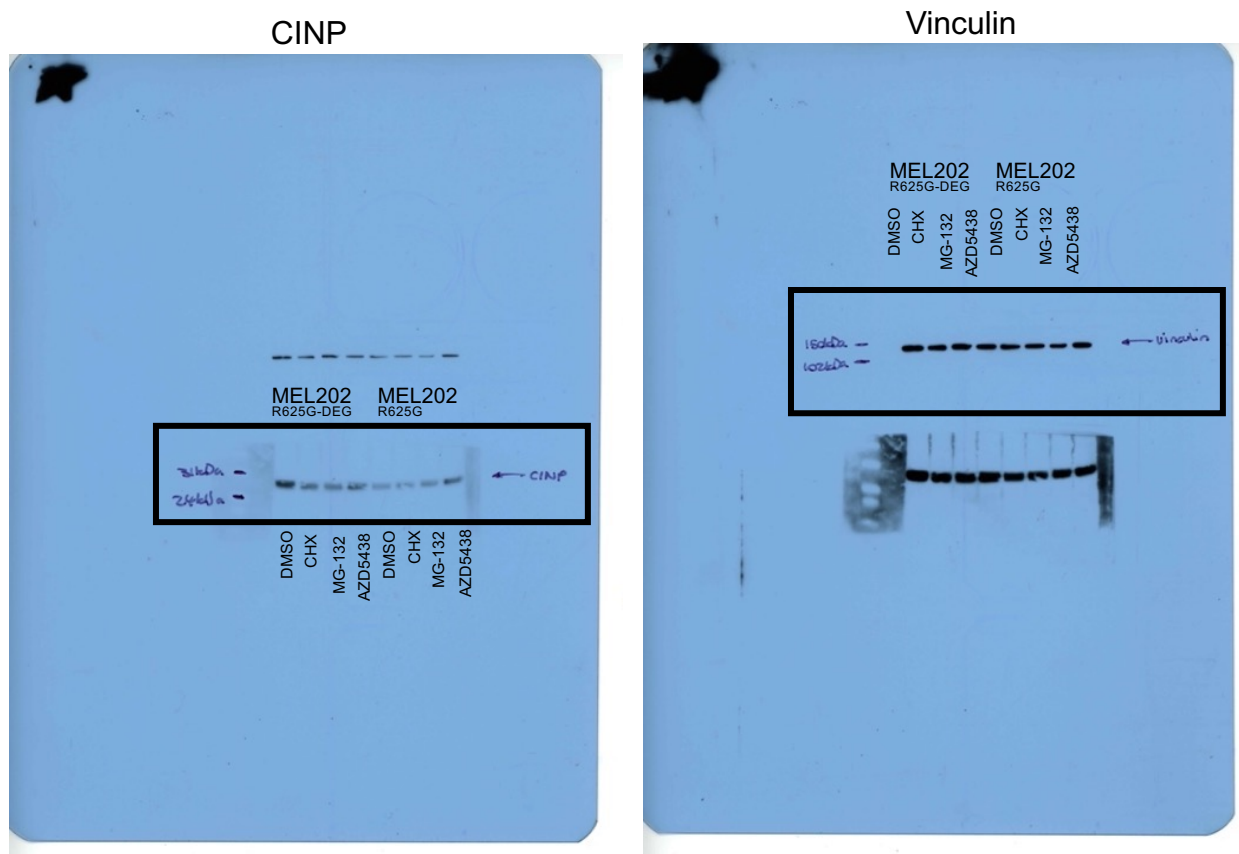


Figure 3e

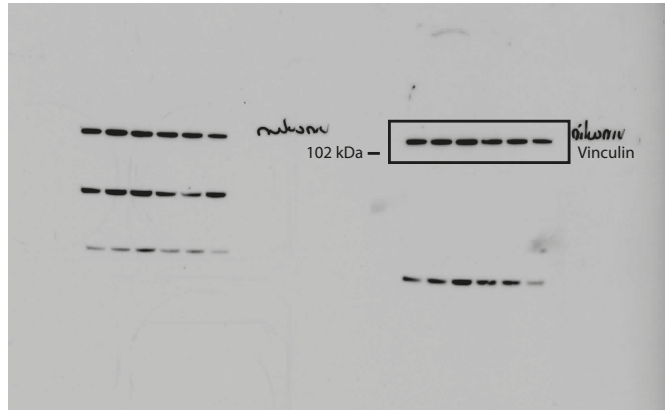
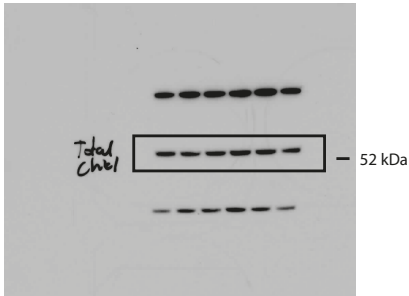
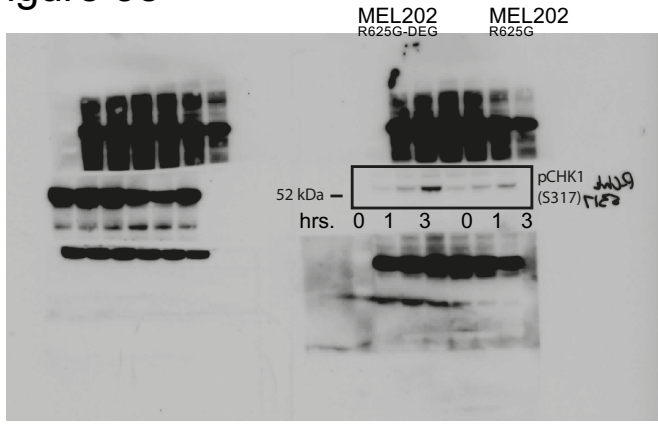


Figure 4a

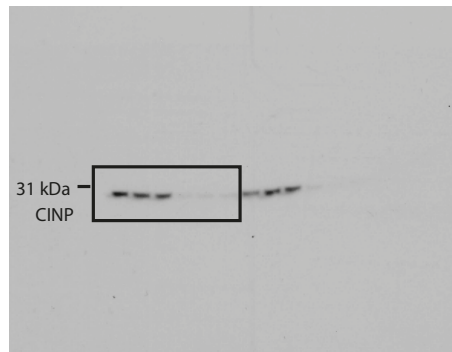
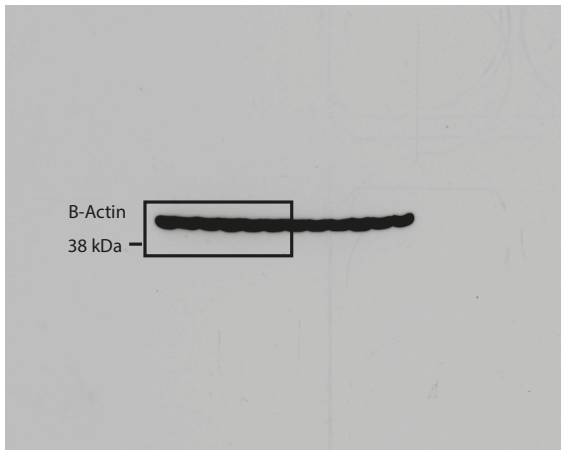
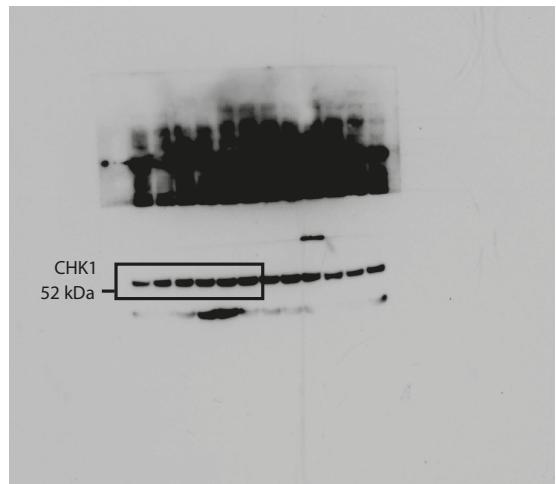
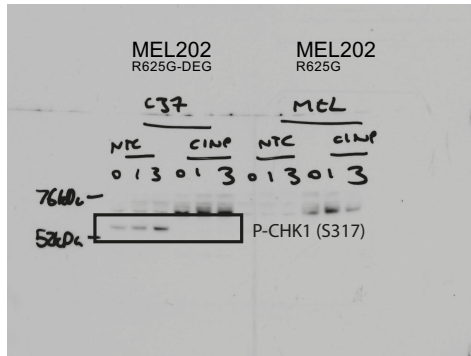
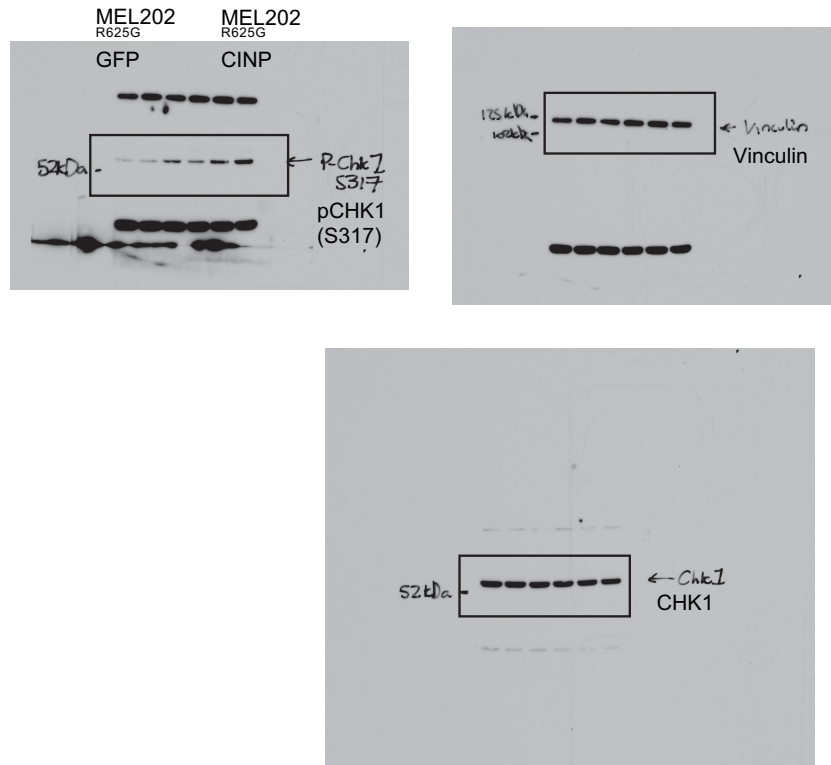
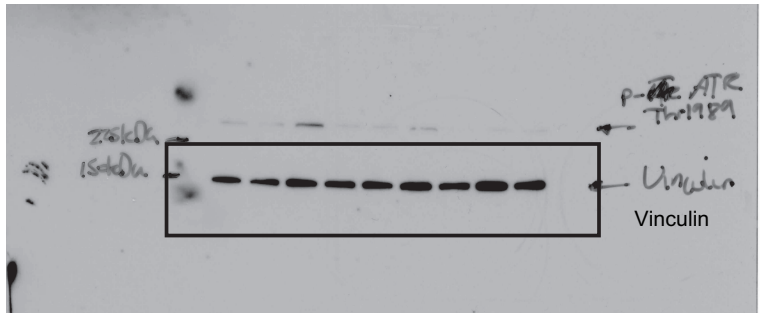
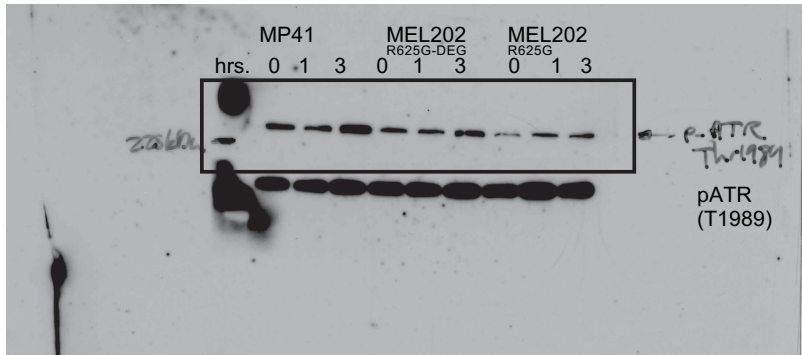


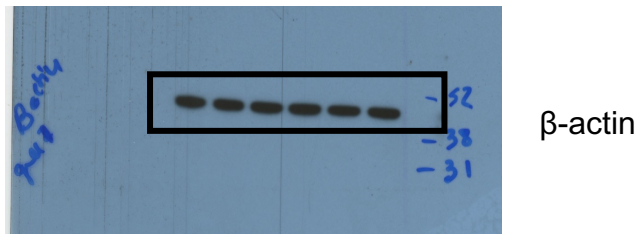
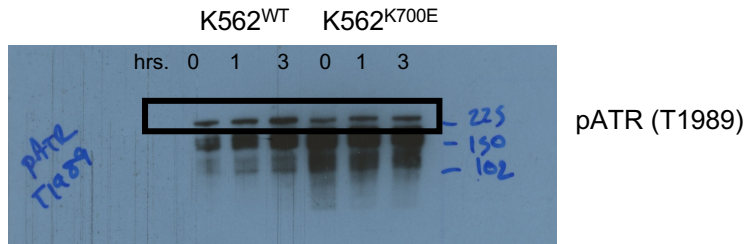
Figure 4c



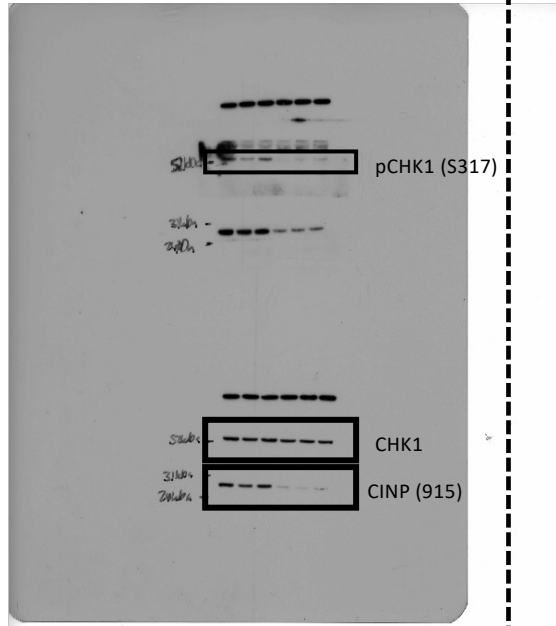
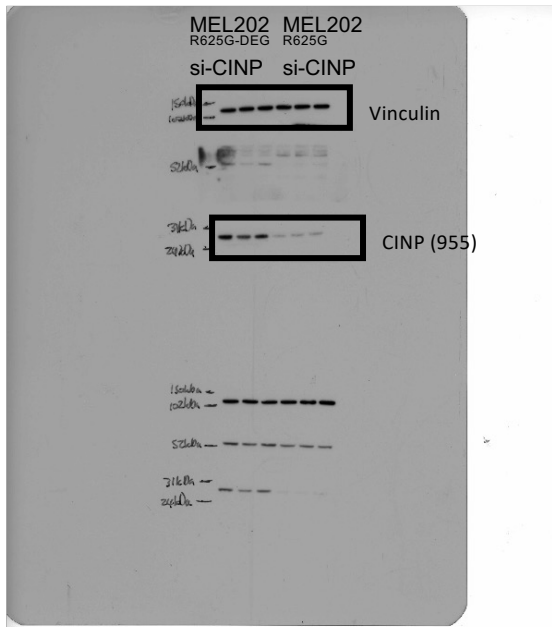
Extended Data Fig. 5di



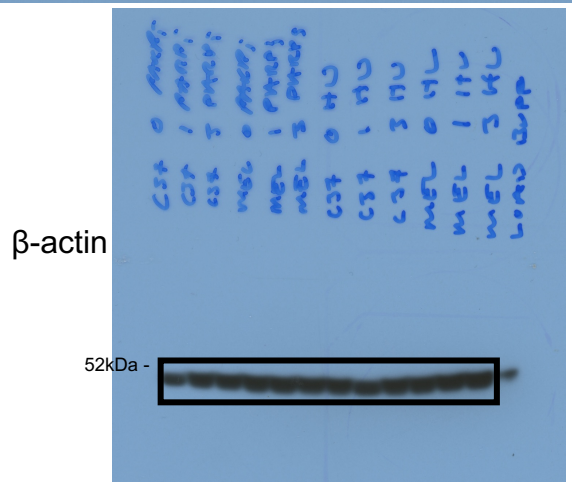
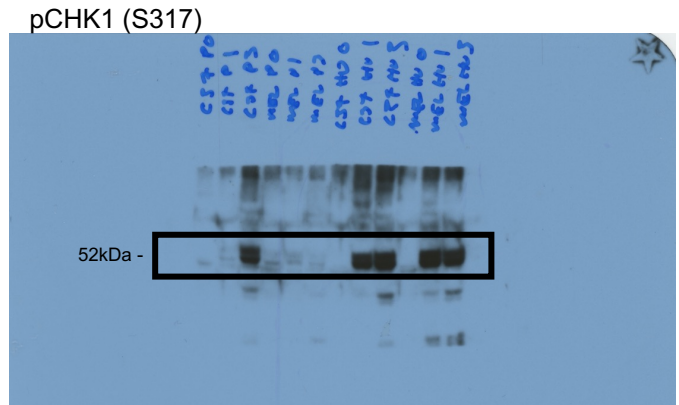
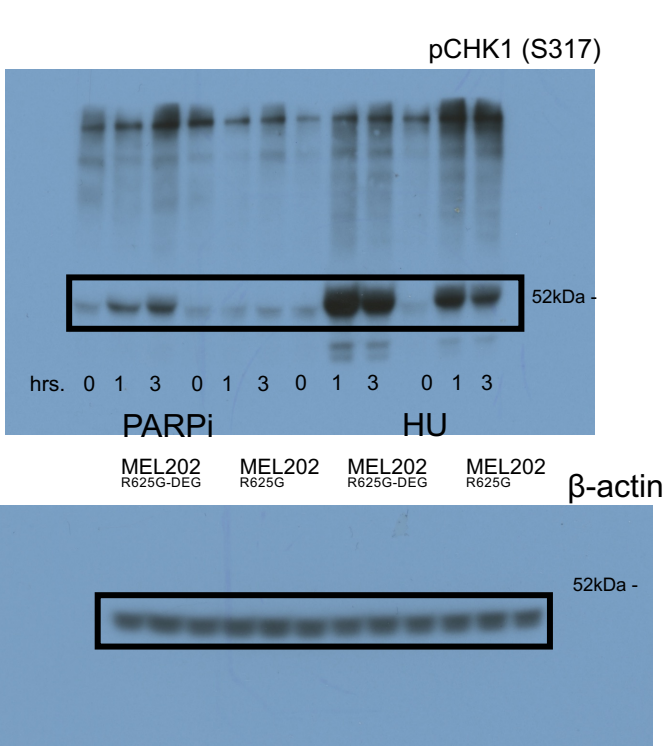
Extended Data Fig. 5dii



Extended Data Fig. 4e



Extended Data Fig. 6a



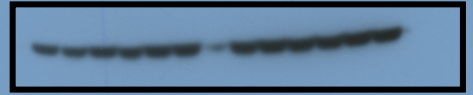
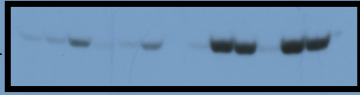
Extended Data Fig. 6b

PARPi pCHK1 (S317)
HU

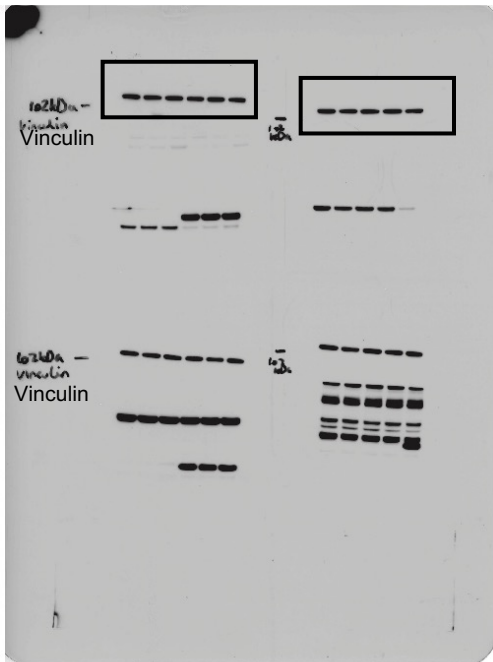
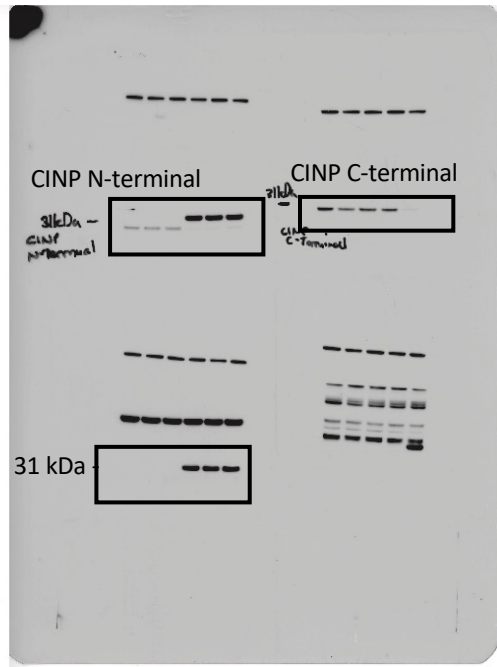
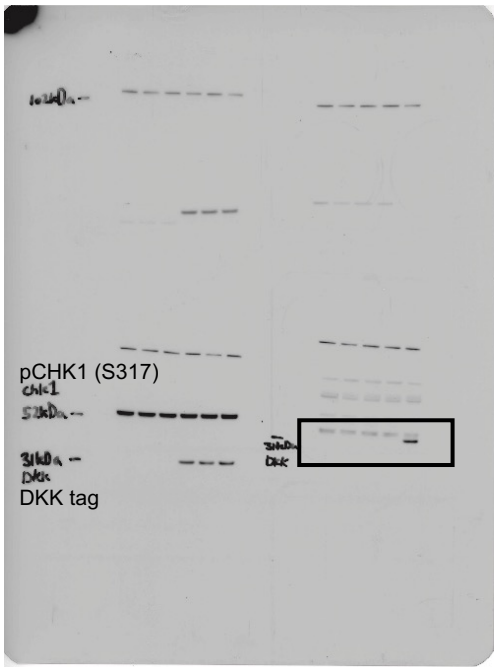
β -actin

K562^{WT} K562^{K700E} K562^{WT} K562^{K700E}
hrs. 0 1 3 0 1 3 0 1 3 0 1 3

52kDa -



Extended Data Fig. 8d-e



Extended Data Fig. 8h

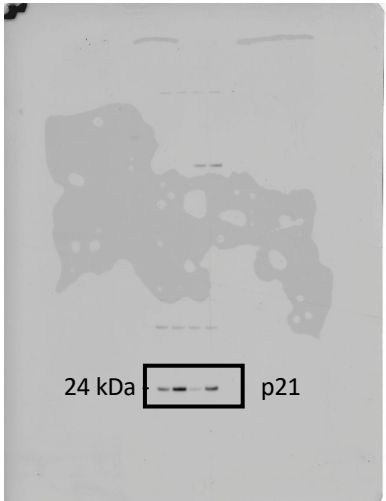
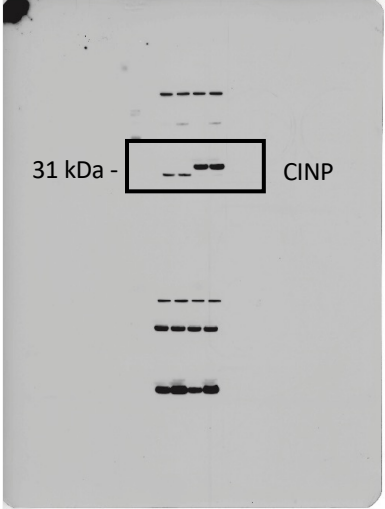
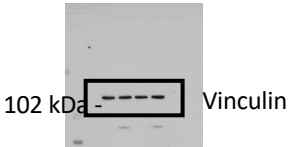


Figure 5b

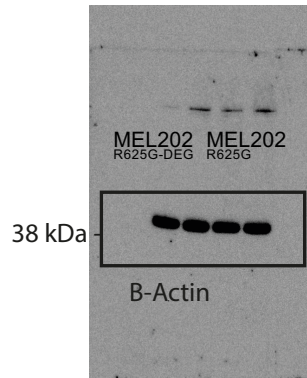
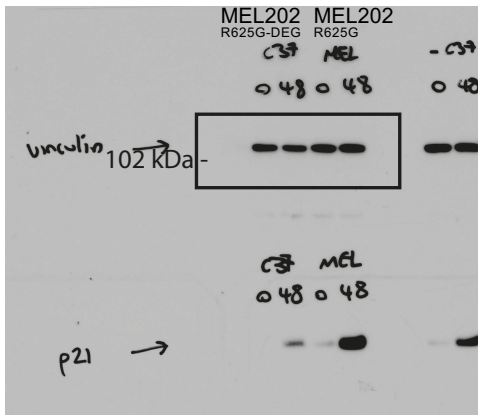
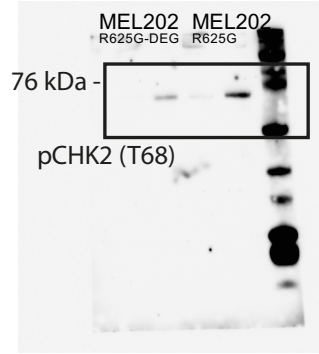
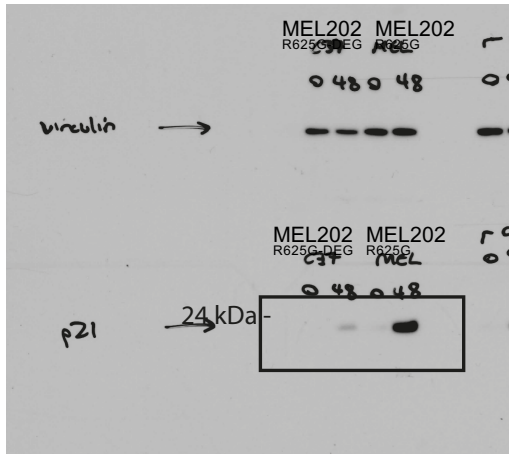


Figure 5d

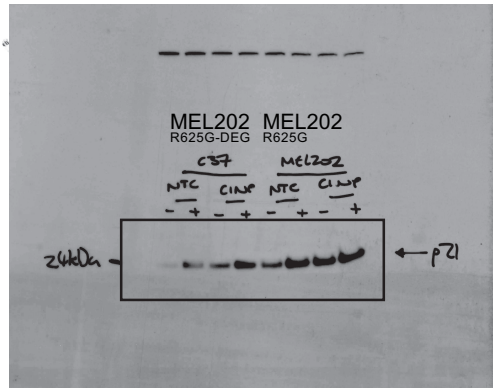
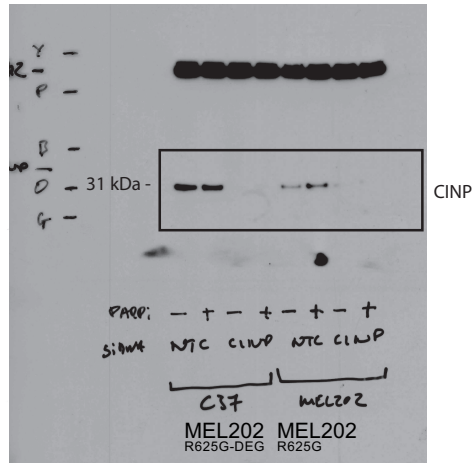
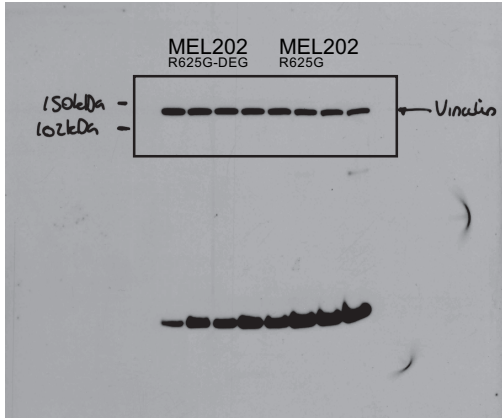


Figure 5e

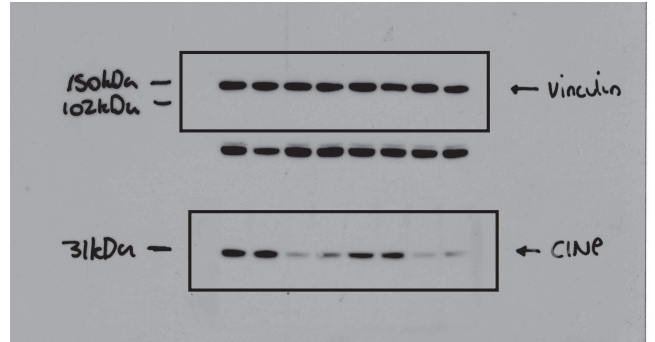
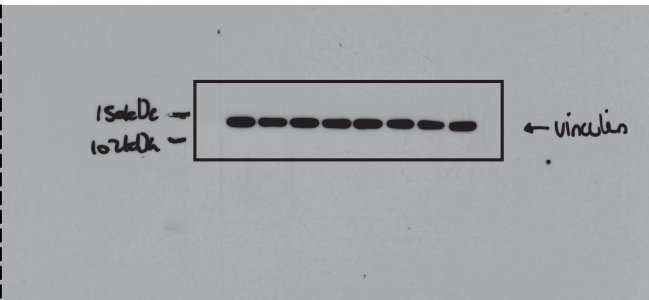
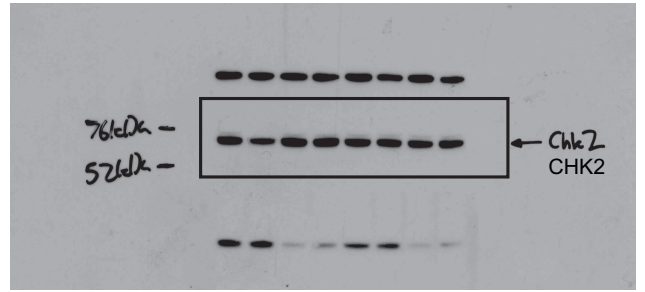
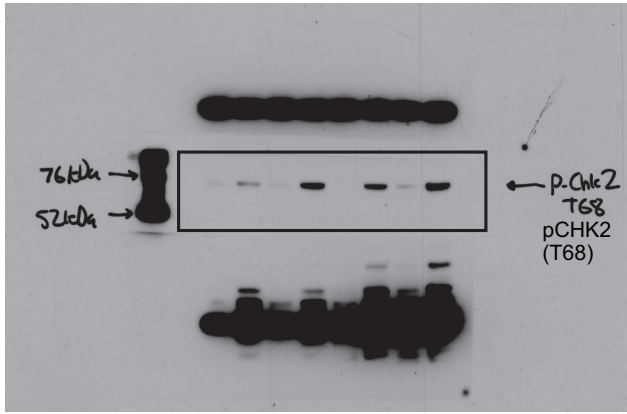


Figure 5g

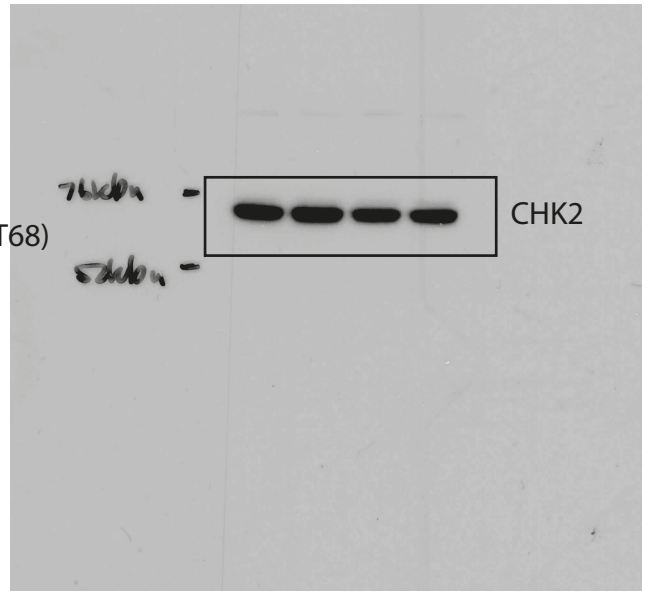
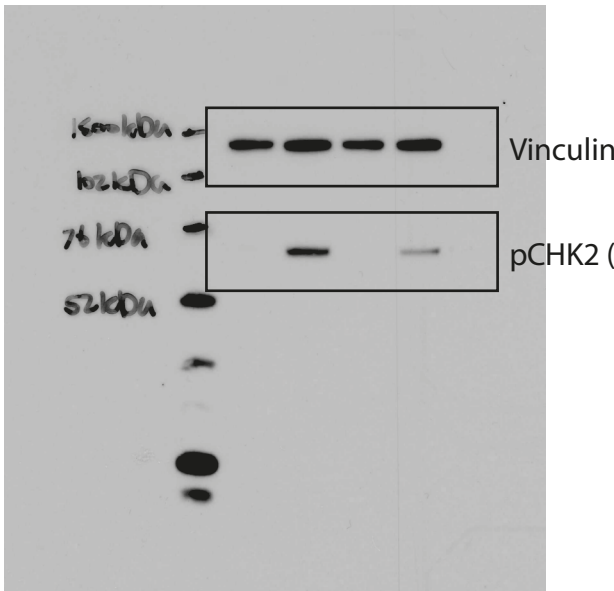
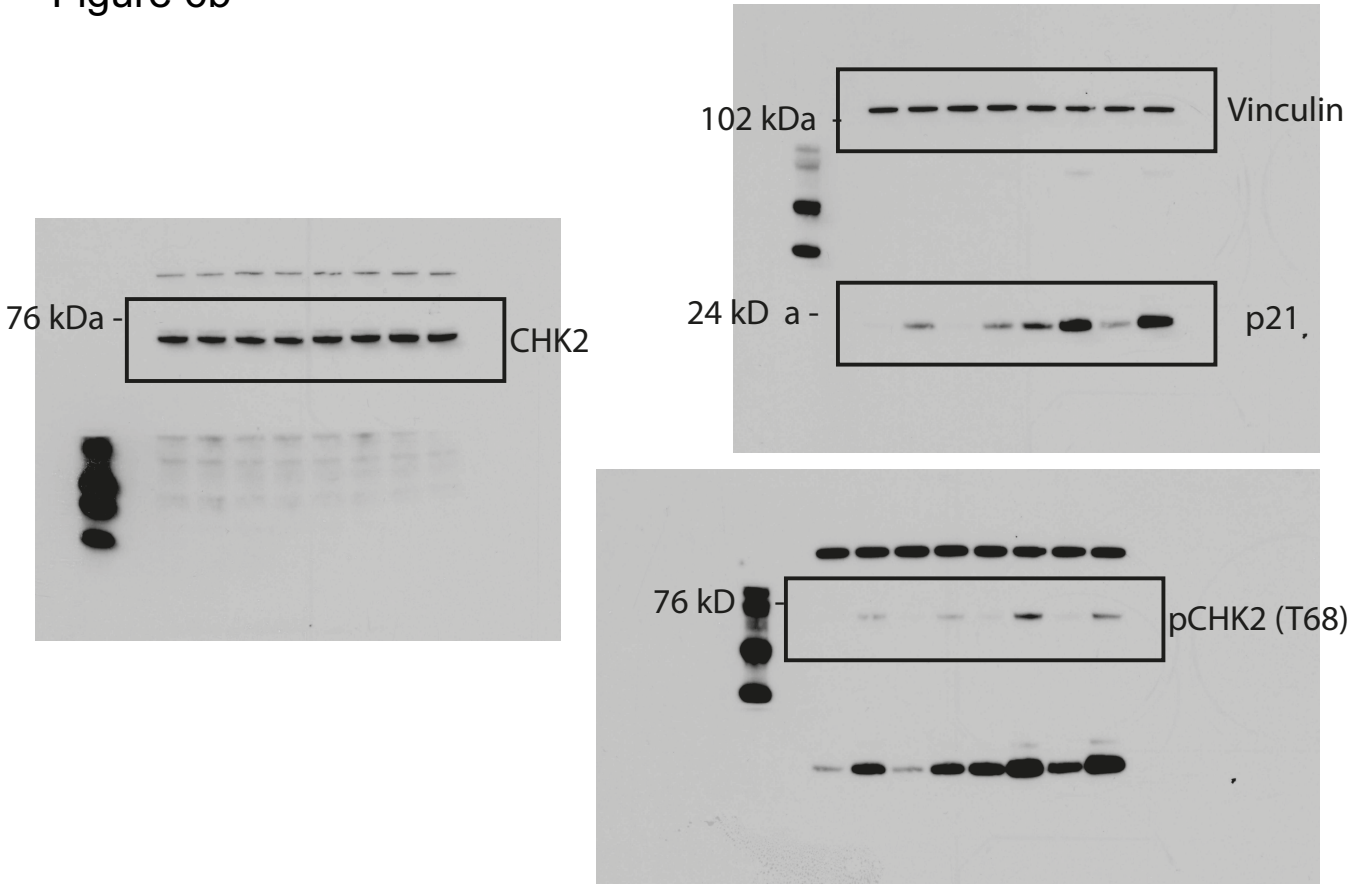
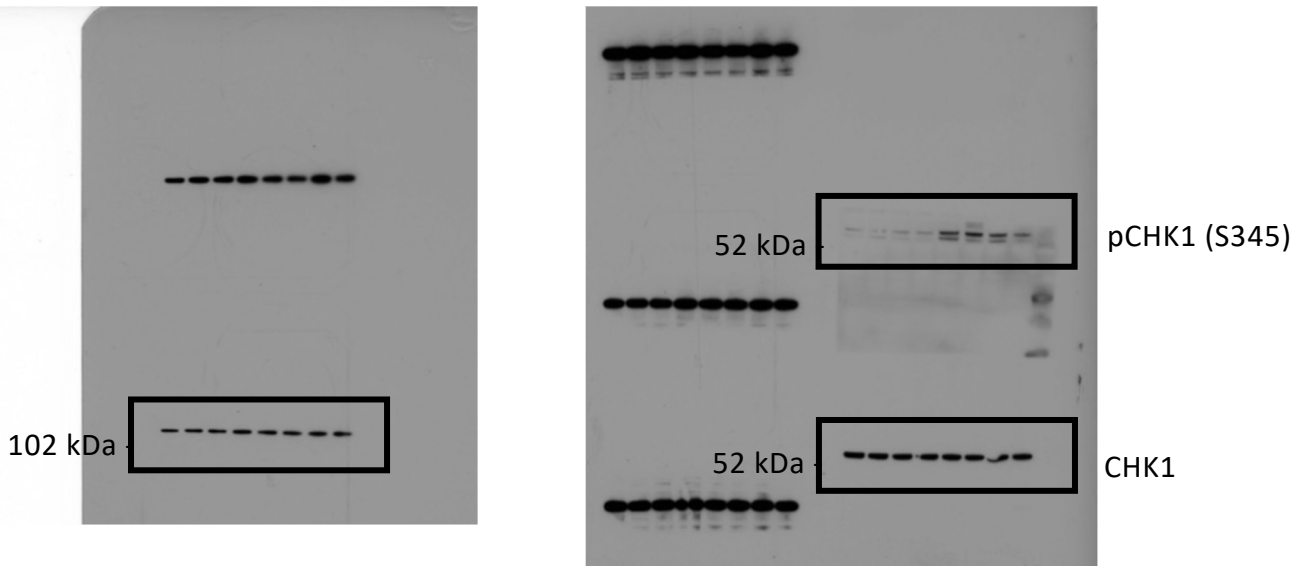


Figure 6b

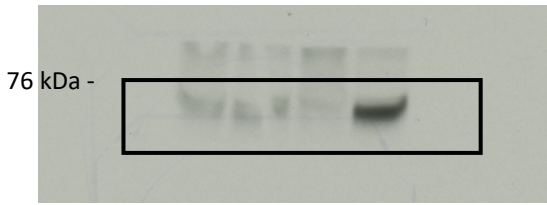


Extended Data Fig. 9c

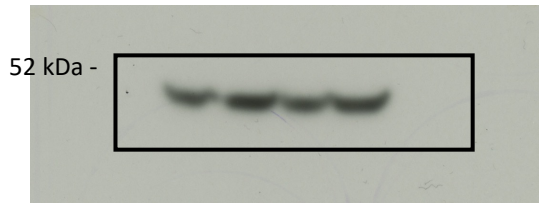


Extended Data Fig. 9e

pCHK2 (T68)

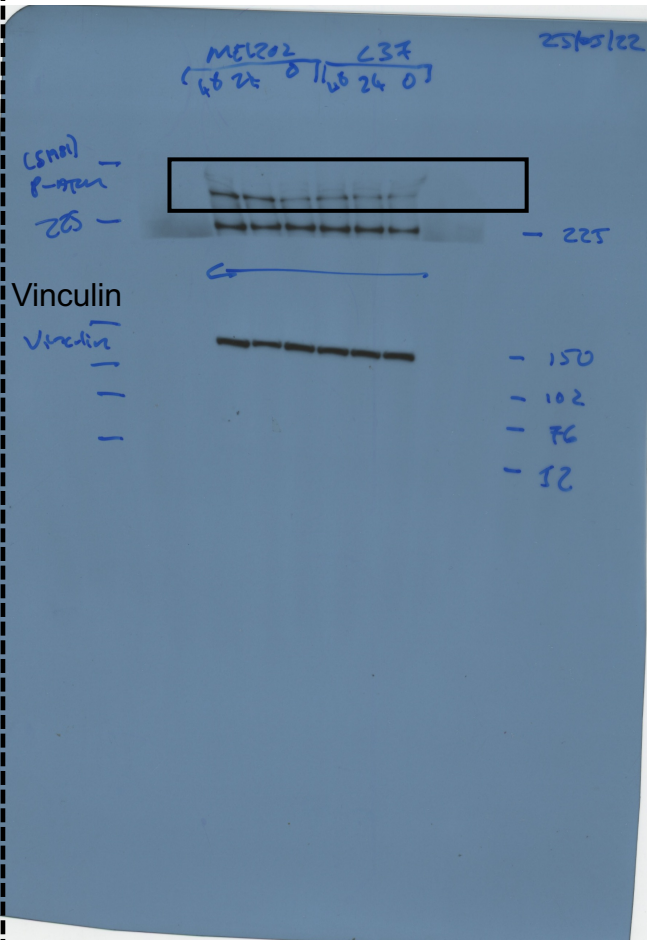


β-actin

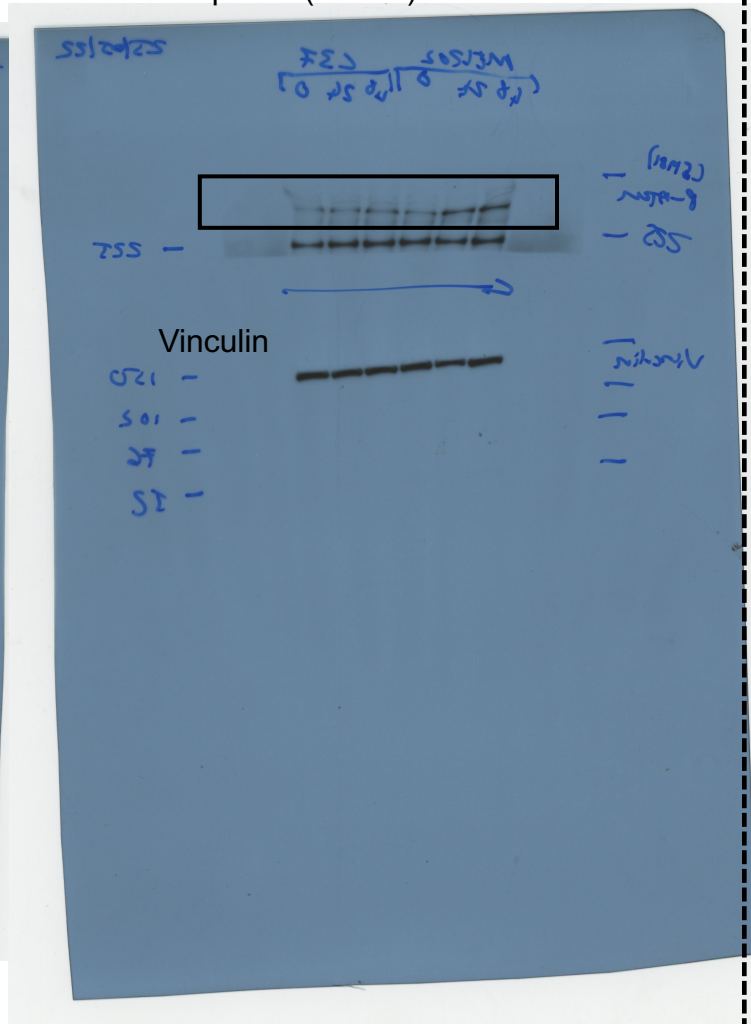


Extended Data Fig. 9f

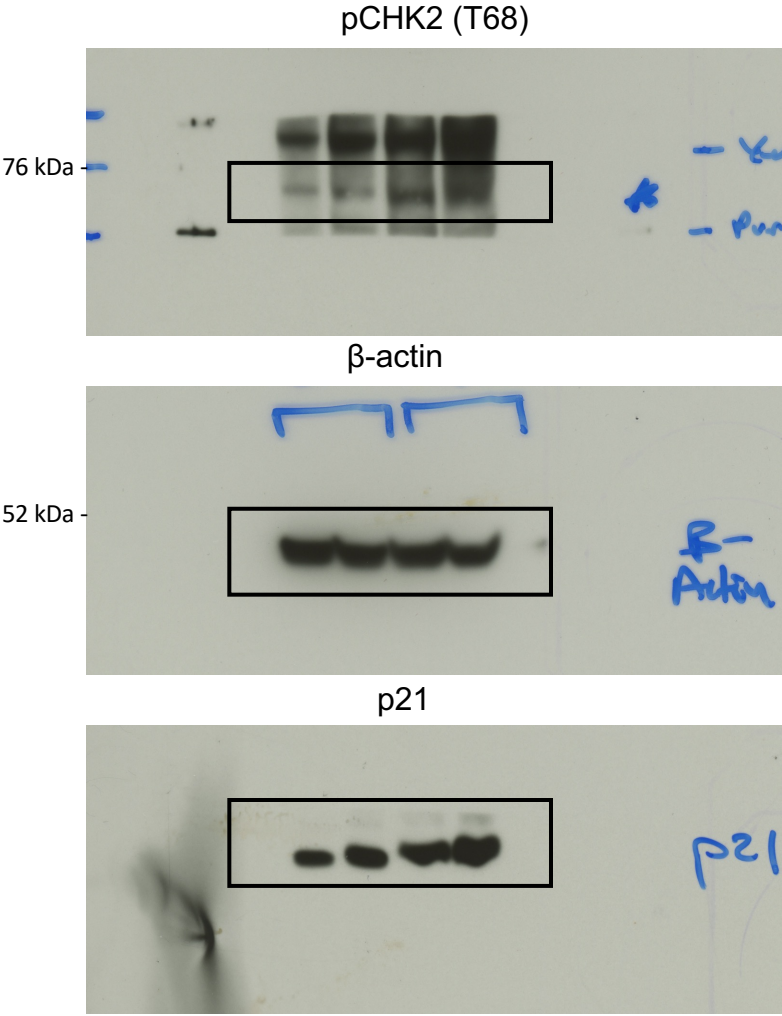
pATM (S1981)



pATM (S1981)



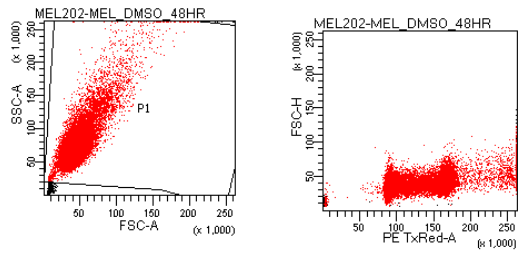
Extended Data Fig. 10d



FACs gating example related to Figure 5a

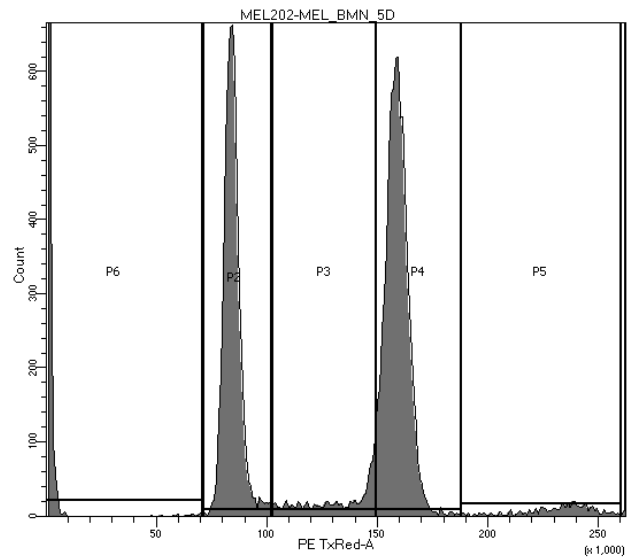
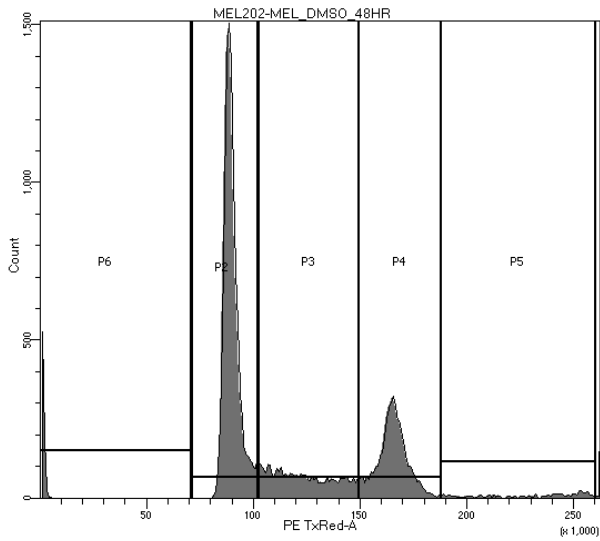
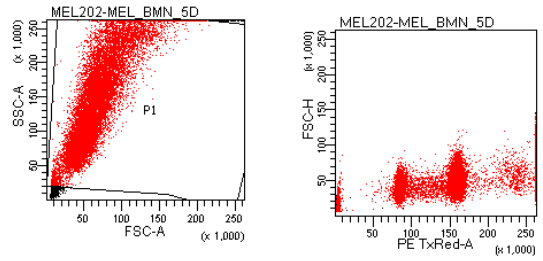
MEL202^{R625G}_DMSO

BD FACSDiva 8.0.1



MEL202^{R625G}_PARPi

BD FACSDiva 8.0.1



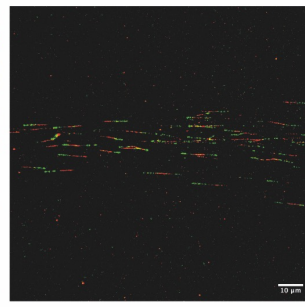
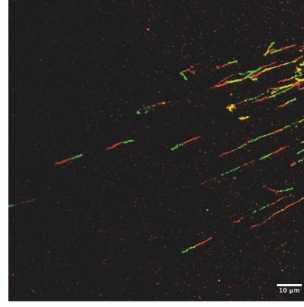
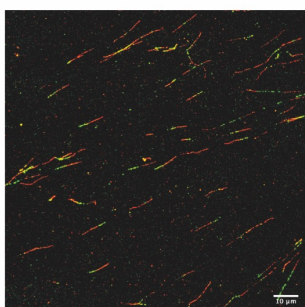
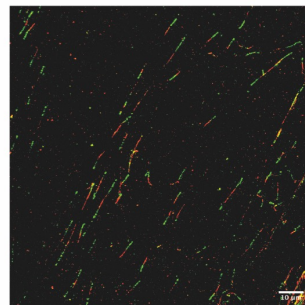
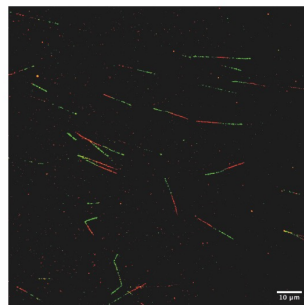
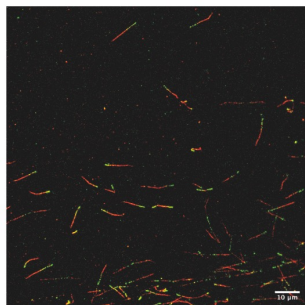
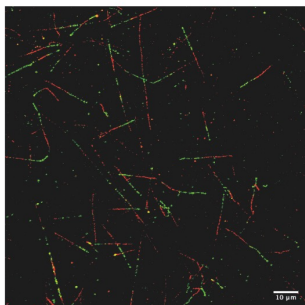
Fibre images

related to Figure 3a-d

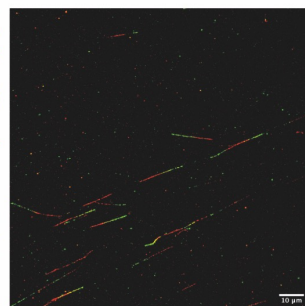
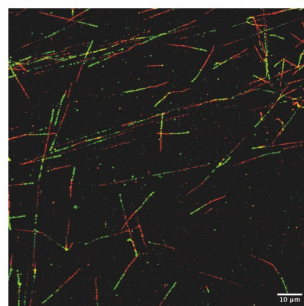
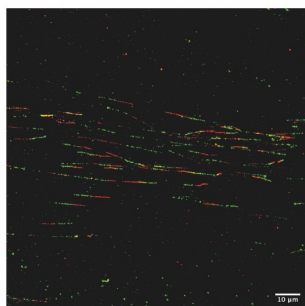
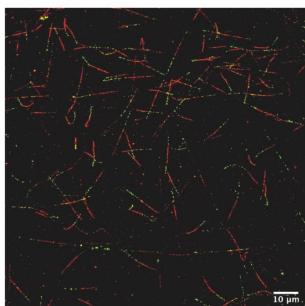
MEL202^{R625G-DEG}

MEL202^{R625G}

DMSO



PARPi



Fibre images

related to Figure 3a-d

