Raw data associated with Fig. 1e,f,g,h,i; Fig. 2b,c,d,e,g,i,j; Fig. 3a,b,c,e,f,g; Fig. 4c,e,f,g,h; ED Fig. 2d,e,f; ED Fig. 3c,d; ED Fig. 4b,d,e,f,g,h,i,k; ED Fig. 5a,b,c,d,e,f,g,h,j,m; ED Fig. 6c,d; ED Fig. 7d,f,g,i; ED Fig. 8a,d; and ED Fig. 9b,c,e are available in the Supplementary Information section.

Raw images from Western Blots are displayed in this document. Gels with multiple bands per lane or in which specific lanes were selected show an indication of how the gels were cropped for the final figure. For Extended Fig. 2b, Extended Fig. 2c, Extended Fig. 5i, Extended Fig. 5k and Extended Fig. 7e, controls were run in separate gels as sample processing controls; for Extended Fig. 7a, loading controls for each gel are provided in the raw data.

Extended Figure 2b







 $KP \qquad KPRbTR$ $= \frac{54 62 M}{KP} \qquad \frac{68 R24 202}{KPRbTR}$







AB FS 68 68 124 124 202,202, # TR R TR R TR R.

Extended Figure 5i



Extended Figure 5k







\$02T4 **KP** Lines Σ 62 1 5 207 Gel 1 KPRbTR Lines 1 7 68 124 202 Gel 2 P16 ab2 **HSP90 HSP90** P16 ab1 **Cyclin D1** p-Erk

Low Exposure

High Exposure

Extended Figure 7a

