

Description of Additional Supplementary Files

Supplementary Movie 1: Representative mitotic progression of HEK293 parental cell. Following synchronisation as depicted in Fig. 5a.

Supplementary Movie 2: Representative mitotic progression of HEK293 S14A cell. Following synchronisation as depicted in Fig. 5a.

Supplementary Movie 3: Representative mitotic progression of HEK293 S14A+WT cell. Following synchronisation as depicted in Fig. 5a.

Supplementary Movie 4: Representative mitotic progression of U2OS cell. Following synchronisation without aphidicolin (APH) exposure in S phase (-), in the presence of DMSO vehicle as depicted in Fig. 5c.

Supplementary Movie 5: Representative mitotic progression of U2OS cell. Following synchronisation with aphidicolin (APH) exposure in S phase (APH-S) as depicted in Fig. 5c.

Supplementary Movie 6: Representative mitotic progression of U2OS cell in the presence of 20 μ M B02. Following synchronisation without aphidicolin (APH) exposure in S phase (-) as depicted in Fig. 5c.

Supplementary Movie 7: Representative mitotic progression of U2OS cell in the presence of 20 μ M B02. Following synchronisation with aphidicolin (APH) exposure in S phase (APH-S) as depicted in Fig. 5c.

Supplementary Movie 8: Representative mitotic progression of U2OS cell in the presence of 2 μ M aphidicolin (APH-M). Following synchronisation without aphidicolin (APH) exposure in S phase (-) as depicted in Fig. 5c.

Supplementary Movie 9: Representative mitotic progression of U2OS cell in the presence of 2 μ M aphidicolin (APH-M). Following synchronisation with aphidicolin (APH) exposure in S phase (APH-S) as depicted in Fig. 5c.

Supplementary Movie 10: Representative mitotic progression of U2OS cell in the presence of 2 μ M AZ3146. Following synchronisation without aphidicolin (APH) exposure in S phase (-) as depicted in Fig. 5c.

Supplementary Movie 11: Representative mitotic progression of U2OS cell in the presence of 2 μ M AZ3146. Following synchronisation with aphidicolin (APH) exposure in S phase (APH-S) as depicted in Fig. 5c.

Supplementary Movie 12: Representative mitotic progression of U2OS cell in the presence of 50 nM neocarzinostatin (NCS). Following synchronisation in the absence of aphidicolin as depicted in Fig. 5c.