USP1 deubiquitinase maintains phosphorylated CHK1 by limiting its DDB1-dependent degradation.

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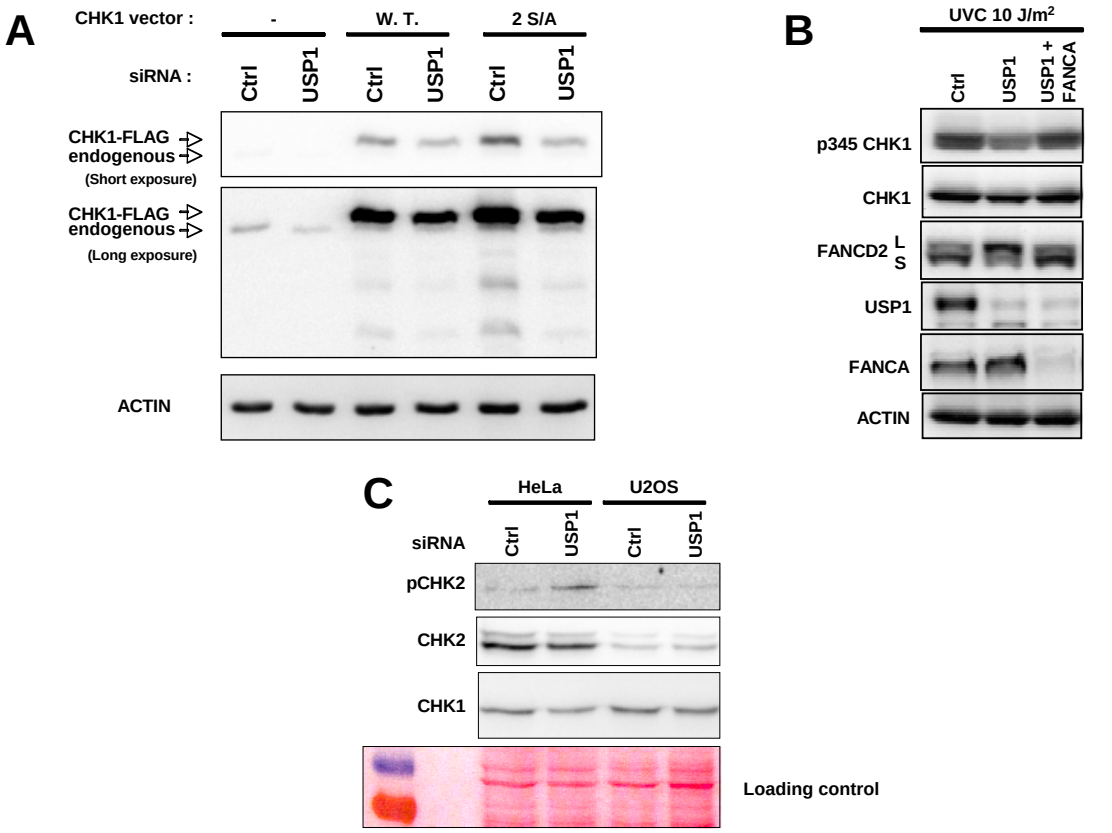
Supplementary Figure legend

Figure S1.

(A) USP1 depletion affects exogenous CHK1 protein levels. U2OS cells were first transfected with siRNAs. The following day, they were transfected with a plasmid encoding FLAG-CHK1 or 2S/A mutant FLAG-CHK1. Western blots were performed using anti-CHK1 and anti-actin antibodies.

(B) USP1 depletion restrains CHK1 levels and phosphorylation following UV exposure in a FANCA-dependent manner. HeLa cells were transfected with siRNAs, treated with UVC (10 J/m^2) and lysed 3 h later to analyse FANCD2 monoubiquitinylation and CHK1 phosphorylation. Western blots were performed with the indicated antibodies.

(C) CHK2 levels are higher in HeLa cells compared to U2OS cells. HeLa and U2OS cells were transfected with siRNAs, and cellular extracts were analysed 72 h later. Western blots were performed using anti-CHK1 and anti-actin antibodies. Red Ponceau staining of the membrane is presented to show protein loading.



Supplemental Figure 1 - Guervilly et al.