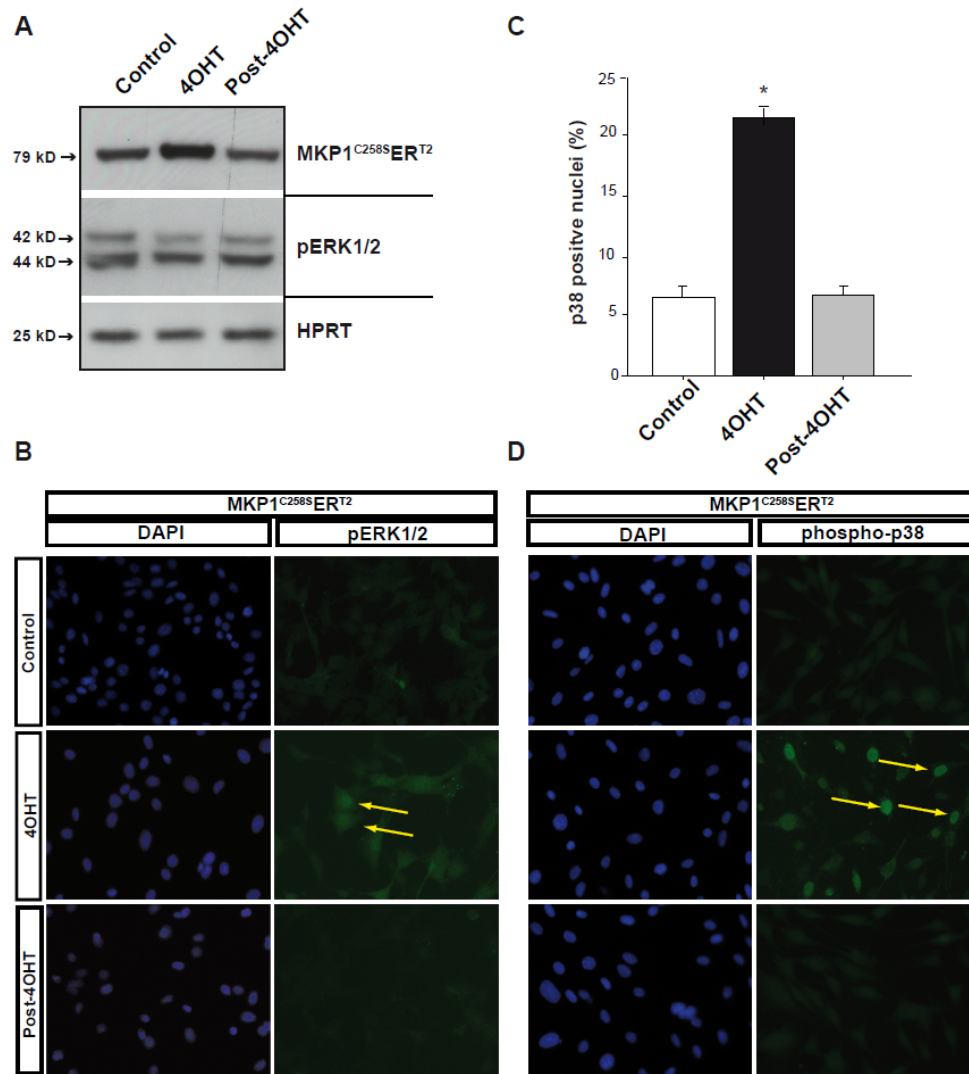


**Figure 4**



**Fig. 4.** Expression of catalytic inactive MKP1<sup>C258S</sup>-ER<sup>T2</sup> in fibroblasts and reversible stimulation of ERK1/2 and p38 phosphorylation by 4OHT. **(a)** Western blot illustrating the constitutively expression of DUSP1<sup>C258S</sup>ER<sup>T2</sup> (79.42 KDa). There was not difference between the different treatments. HPRT was used as loading control. **(b)** Expression of active p38 before (control), during (4-OHT) and after induction with 4-OH tamoxifen (Post-4-OHT). Only in the central panel (4-OHT) is possible to observe a nuclear pERK1/2 increase (indicated by yellow arrows). **(c)** Quantification of pp38 positive nucleus compared to total number of cells. The fibroblasts treated with 4-OHT presented three times more pp38 positive nucleus than control and post-treated cells. \* indicates  $p < 0.001$ . **(d)** Expression of active p38 before (control), during (4-OHT) and after induction with 4-OH tamoxifen (Post-4-OHT). Only in the central panel (4-OHT) is possible to observe a nuclear pp38 increase, indicated by yellow arrows.