Supplementary Materials

Primers for Real-time qRT-PCR

GAPDH

5’-GGGCTGCTTTTAACTCTGGTAA-3’

5’-ATGGGTGGAATCATATTGGAAC-3’

TP53INP1

5’-ATTGTGGGCTACGTGGAAAC-3’

5’-ATCTCATCCTGCCCAAACAC-3’

p53

5’-CTGTCCCTTCCCAGAAAACCT-3’

5’-GGGAGTACGTGCAAGTCACAGA-3’

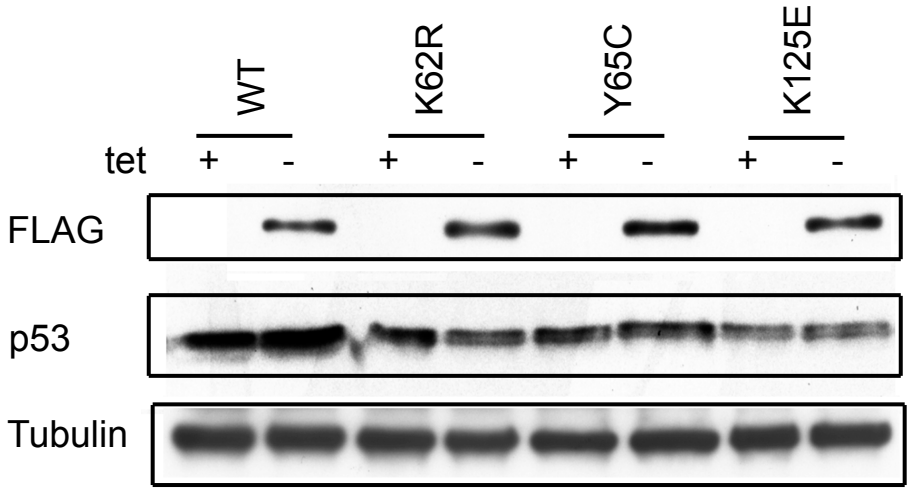
BAX

5’- CCAGCTCTGAGCAGATCATG-3’

5’-TCAGCCCATCTTCTTCCAGA-3’

Supplementary Figure S1. Analysis of PTEN and p53 expression under the tet-off expression system. MCF-7 cells overexpressing PTEN-WT, K62R, Y65C or K125E were cultured in either the presence or the absence of Tet for 24 h. Exogenously expressed PTEN protein levels were determined by Western blot using an anti-FLAG antibody. p53 was detected by using a monoclonal antibody. Anti-alpha-tubulin antibody was used as a loading control

Supplementary Figure S2. MG132 reverses p53 degradation in MCF-7 cells. MCF-7 cells overexpressing PTEN-WT, K62R, Y65C or K125E were cultured in DMEM with 10 μM MG-132 for 16 h. p53 protein intensity in MCF-7 cells determined by confocal microscope imaging and immunofluorescence. Cells were fixed and analyzed by immunofluorescence for endogenous p53 protein staining. p53 was detected with a polyclonal antibody followed by a goat anti-rabbit secondary antibody conjugated to Alexa Fluor 568 (red). Nuclei were counterstained with DAPI (blue).



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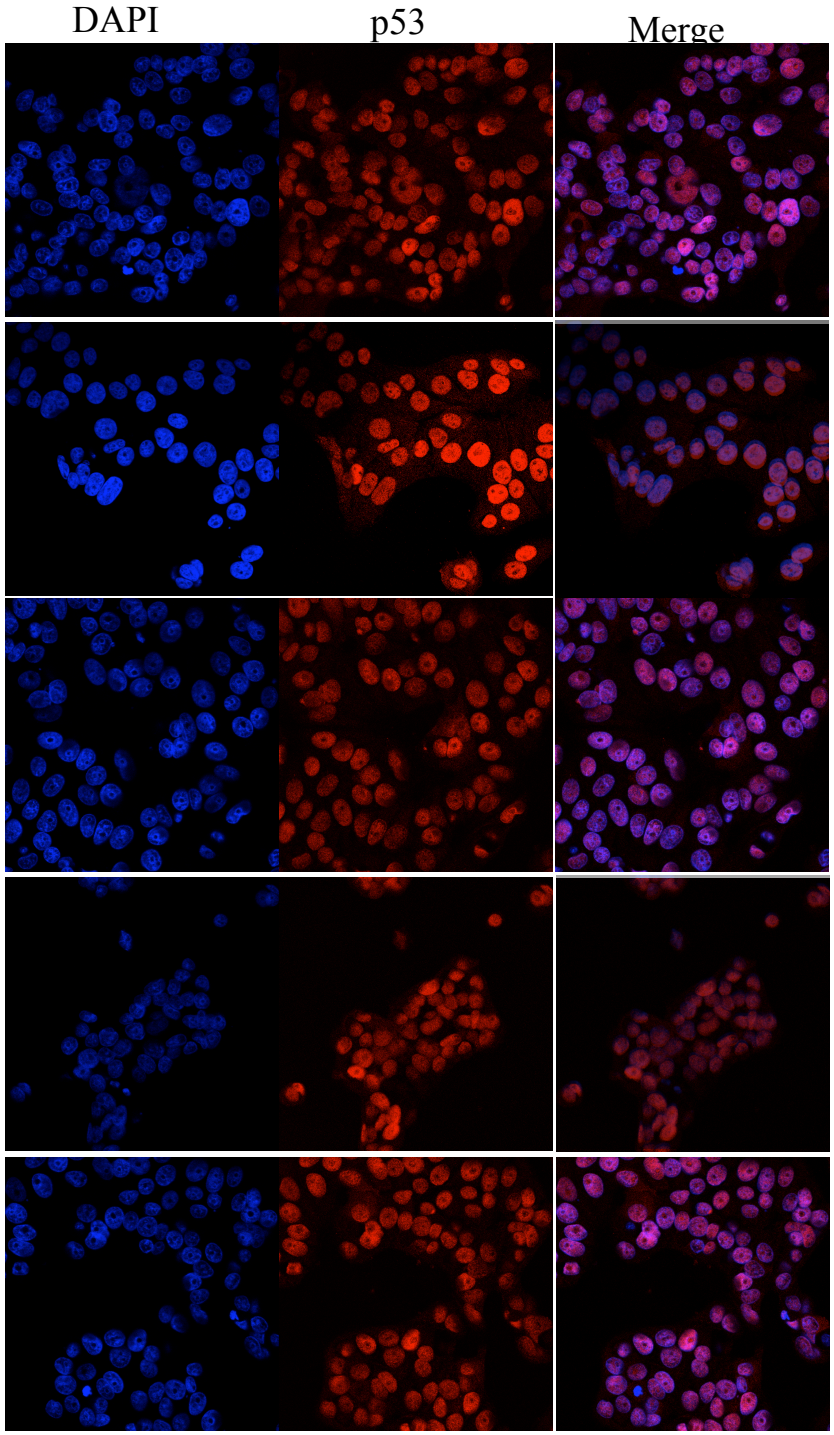

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