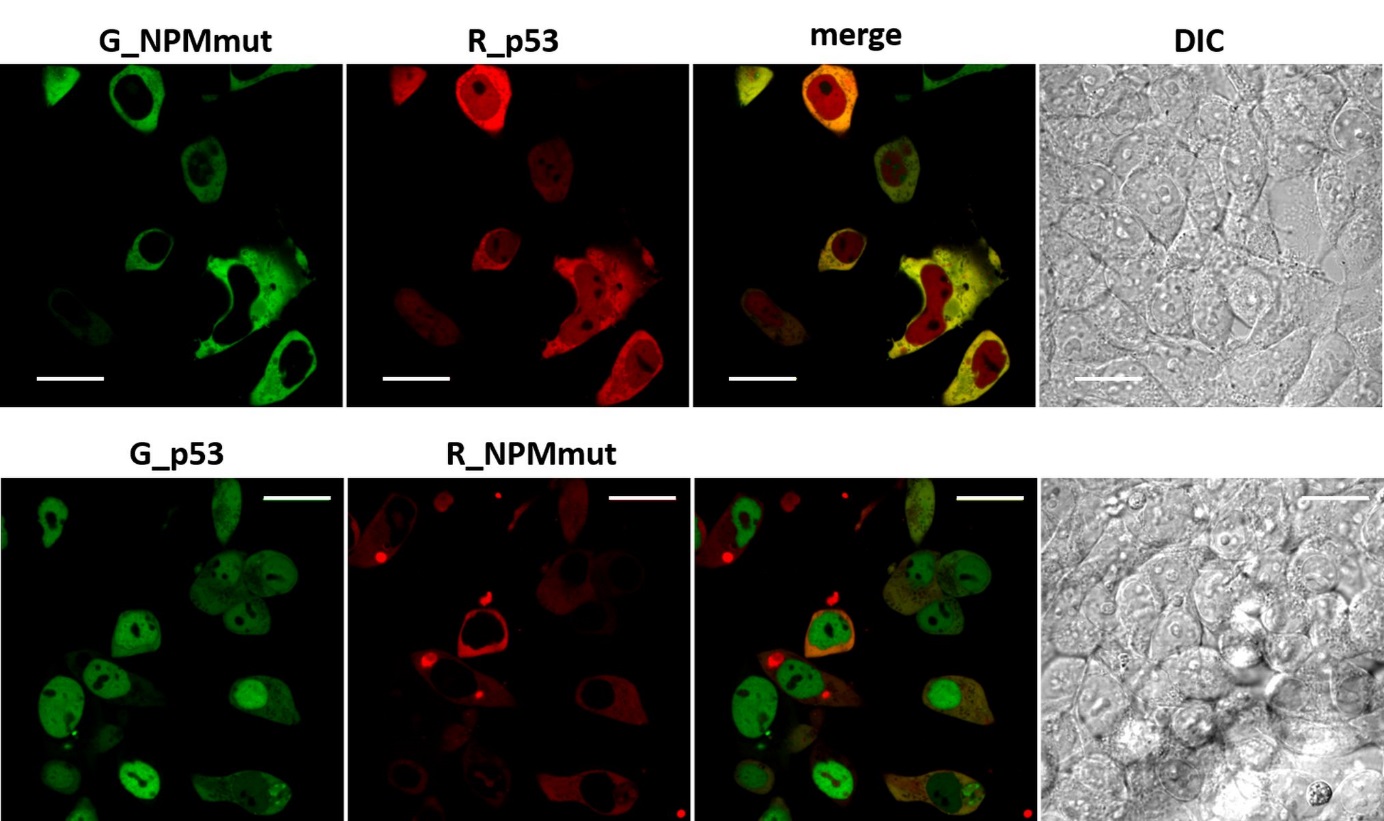
**Supplementary material 1**

**AML-related NPM mutations drive p53 delocalization into the cytoplasm with possible impact on p53-dependent stress response**

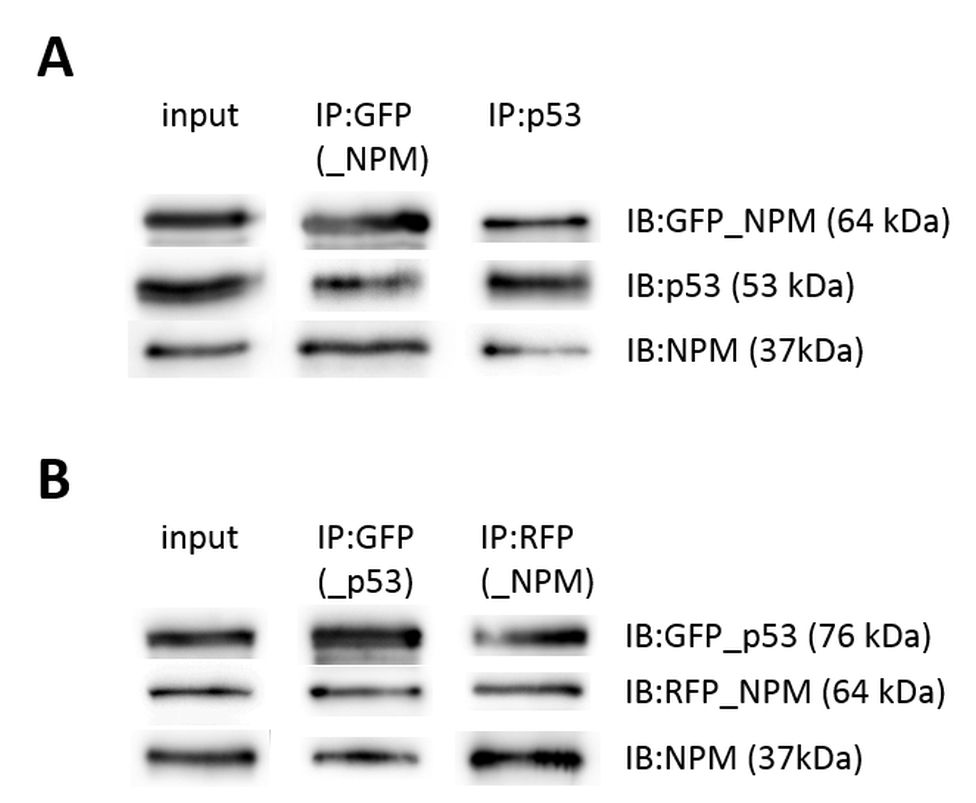
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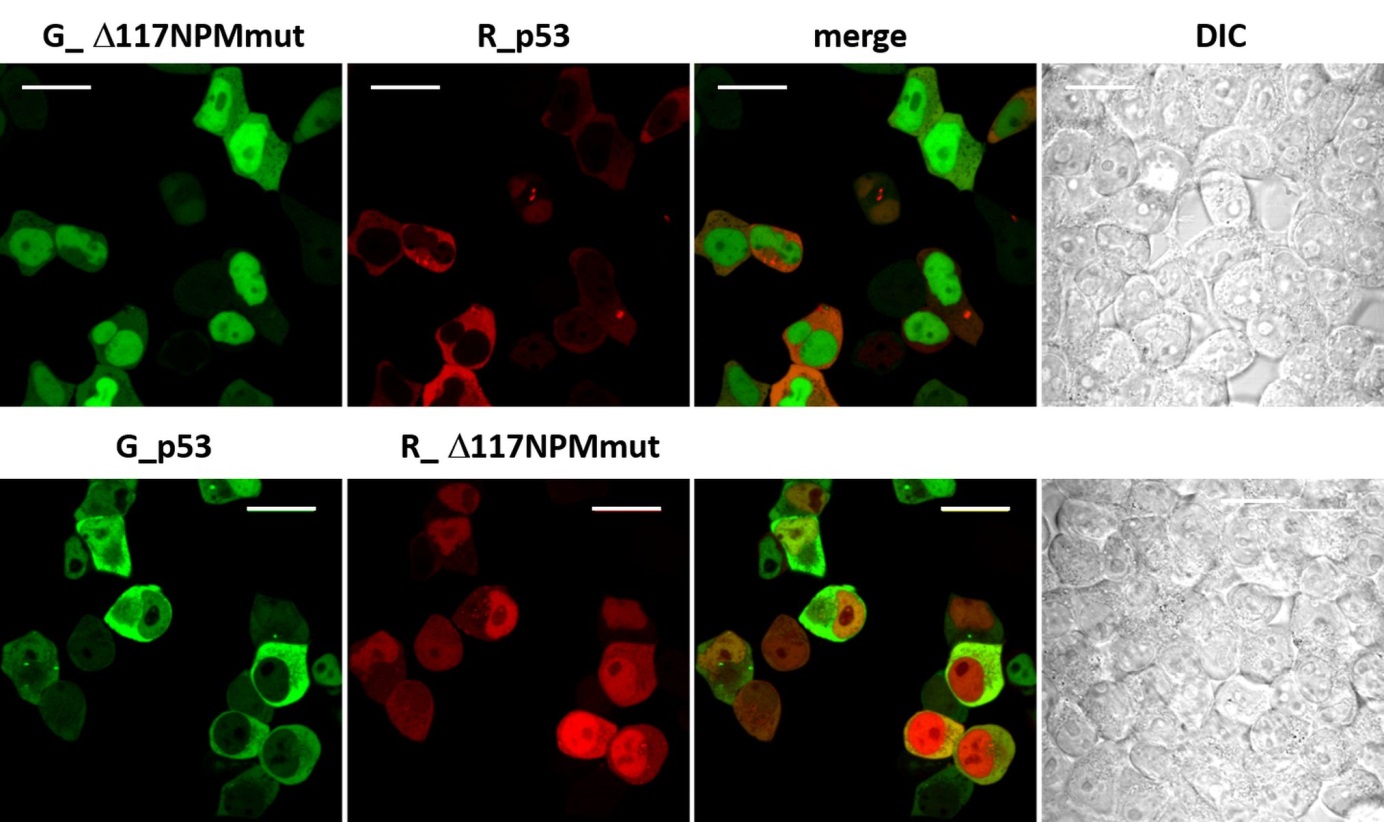
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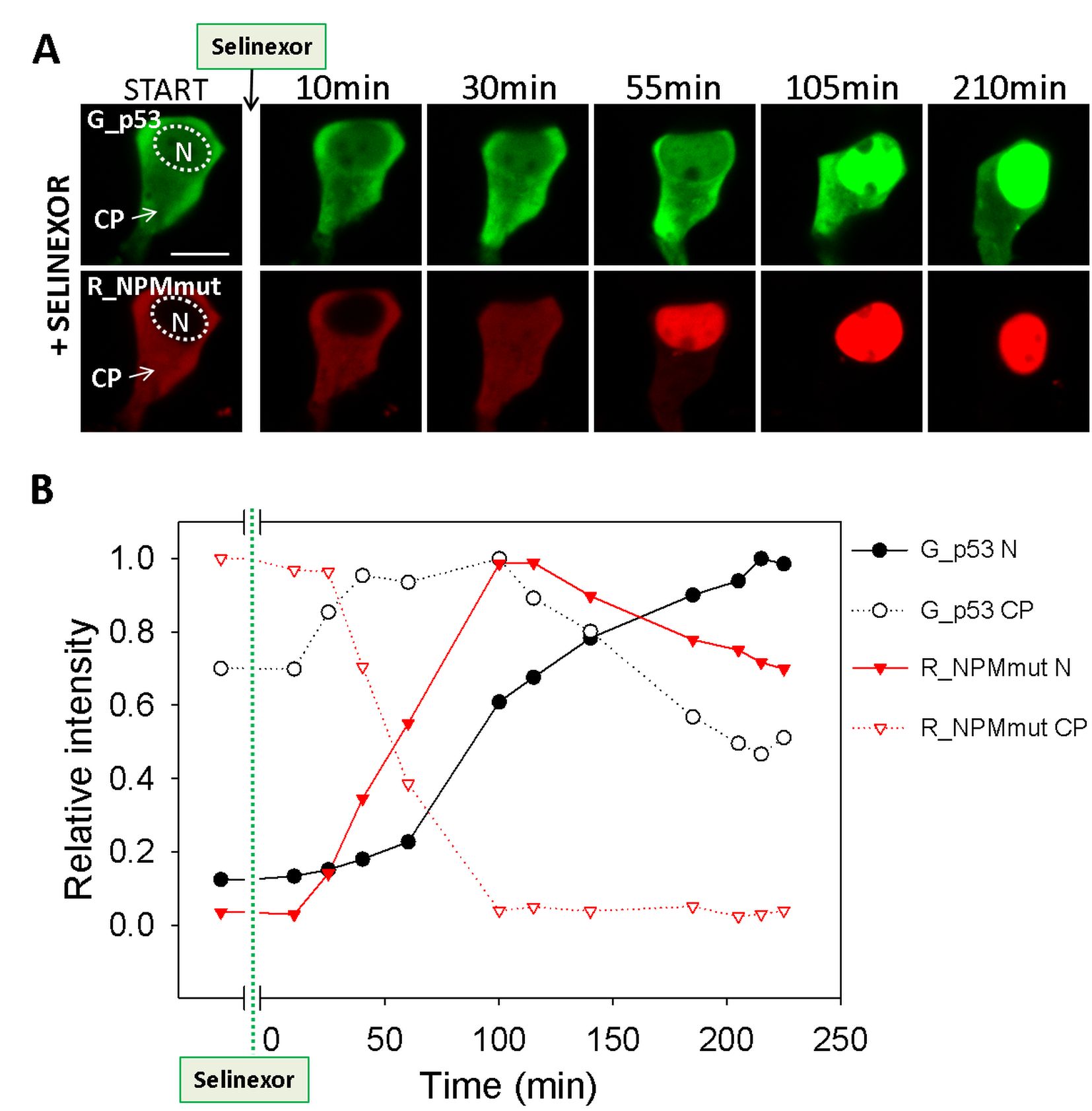
**Figure S1**. Localization of p53 co-expressed with NPMmut in HEK-293T cells shown for two tagging combinations. Upper row - co-expression of G\_NPMmut and R\_p53, lower row - co-expression of R\_NPMmut and G\_p53. Columns from left to right represent eGFP fluorescence, mRFP1 fluorescence, merge of both channels, and DIC image. Bar indicates 20 µm.



**Figure S2**. Interaction between NPMwt and p53 in cell lysates of transfected HEK-293T cells. (**A**)Transfection with G\_NPMwt; precipitation with GFP Trap and p53-Trap. Endogenous p53 co-precipitates with NPMwt, both exo- and endogenous NPMwt co-precipitate with the p53; (**B**) Co-transfection with G\_p53 and R\_NPMwt; precipitation with GFP-Trap and RFP-Trap. Exogenous p53 co-precipitates with exogenous NPMwt. Both exo- and endogenous NPMwt co-precipitate with exogenous p53.



**Figure S3**. Localization of p53 co-expressed with Δ117mut in HEK-293T cells shown for two tagging combinations. Upper row - co-expression of G\_Δ117mut with R\_p53, lower row - co-expression of R\_Δ117mut with G\_p53. Columns from left to right represent eGFP fluorescence, mRFP1 fluorescence, merge of both channels, and DIC image. Bar indicates 20 µm.



**Figure S4**. Effect of Selinexor on the fluorescence intensity and localization of G\_p53 and R\_NPMmut co-transfected in HEK-293T cells. (**A**)Intensity images of G\_p53 co-expressed with R\_NPMmut at different times upon the addition of 4 µM Selinexor. Depicted is the unconverted cell no. 2 from **Figure 7A**. Bar represents 10 µm; (**B**)Fluorescence intensity changes of G\_p53 (circles) and R\_NPMmut (triangles) in the nucleus (N) and the cytoplasm (CP) of the cell from the panel A. Areas used for integration of the fluorescence signal are separated by the dotted linein panel A. Intracellular G\_p53 was not photoconverted.