Regulation of autophagy by nucleoporin Tpr

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Supplemental information

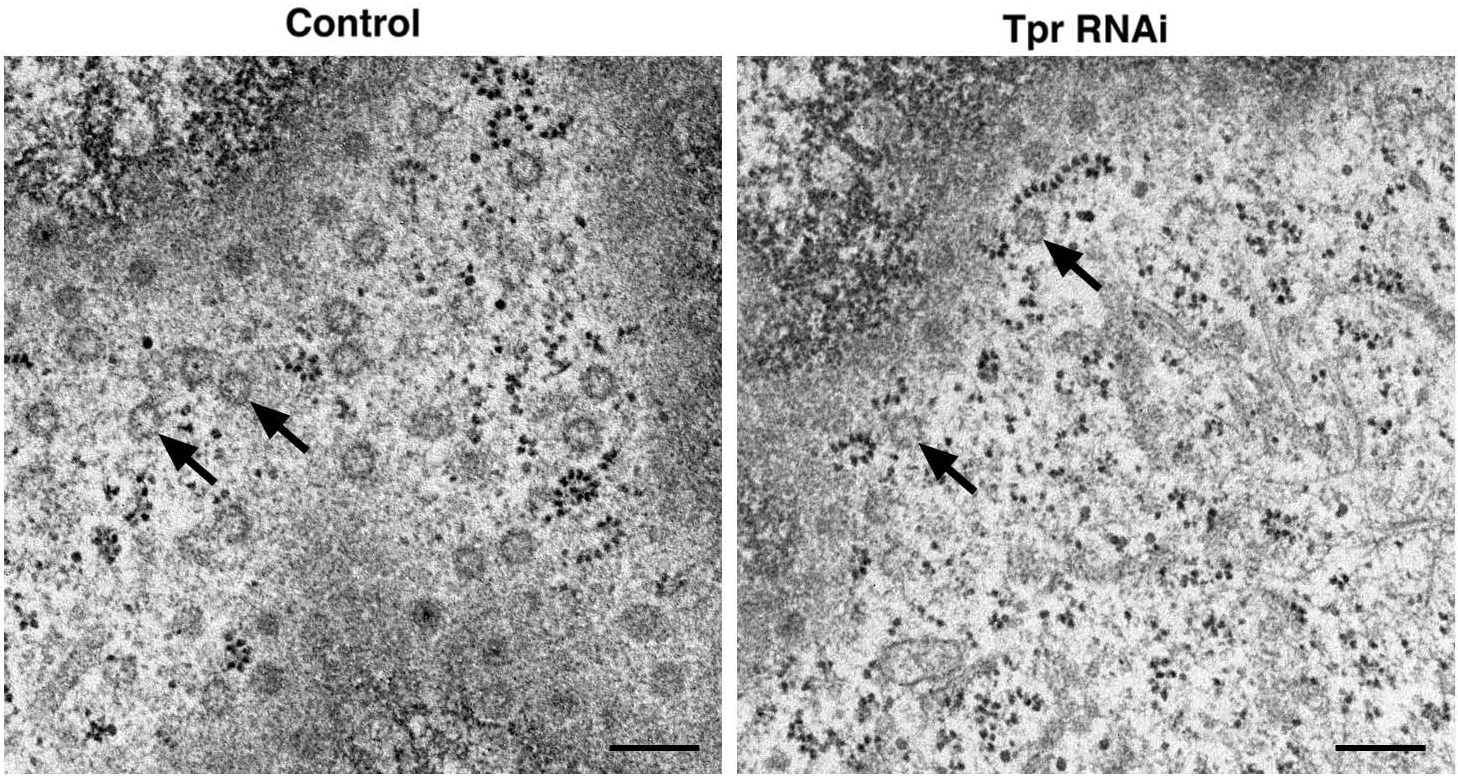
Supplemental Figure legends

Supplemental Figure 1. Electron microscopic images of nuclear pores (arrows) in control or Tpr siRNA-transfected HeLa cells. Tangential section is showing the pores in a frontal view. Scale bars, 0.25 μm.

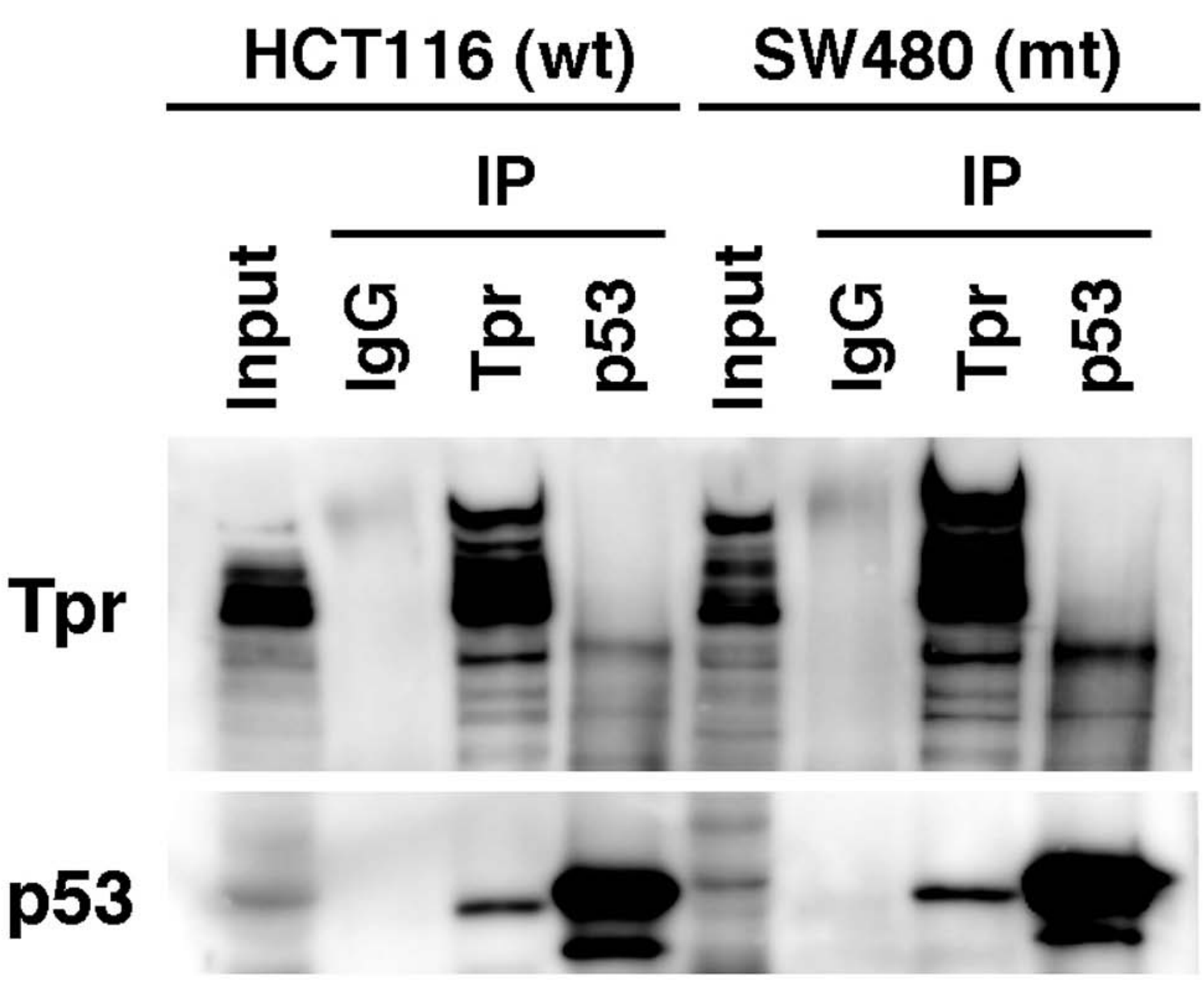
Supplemental Figure 2. Tpr interacts with both wild-type and mutant p53. HCT116 (wild-type p53) and SW480 (mutant p53) cell lysates were immunoprecipitated with anti-Tpr, -p53, or nonspecific rabbit antibodies (IgG) followed by immunoblot analysis for Tpr and p53 expression. Cell lysates were also immunoblotted as a control (Input). IP, immunoprecipitation.

Supplemental Figure 3. Tpr depletion induces autophagy, but not apoptosis. (A) HeLa cells were transfected with control or Tpr siRNA for 72 h and apoptotic cells were detected by TUNEL assay. Scale bars, 20 μm. (B) HeLa cells were transfected with control or Tpr siRNA for 72 h and apoptotic cells were detected by DNA ladder analysis. Cells treated with 3 μM staurosporine for 5 h served as positive control. Extracted DNA was separated on 2% agarose gels to visualize apoptotic DNA ladders. (C) Electron microscopy shows the ultrastructure of HeLa cells transfected with control or Tpr siRNA for 72 h. Scale bars, 10 μm.

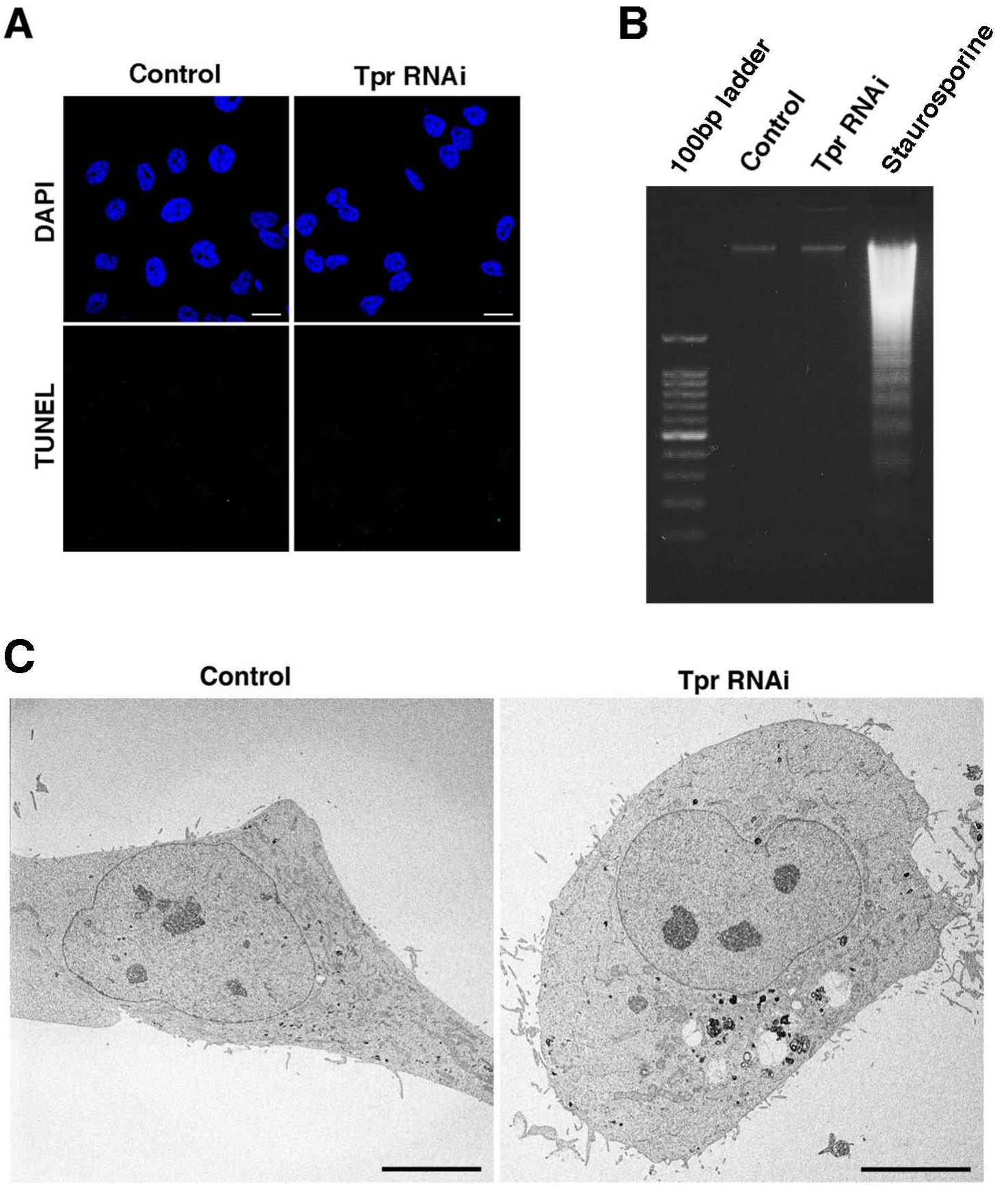
Supplemental Table 1. Sequences of PCR primers used in this study.



Funasaka et al._Supplemental Figure 1



Funasaka et al._Supplemental Figure 2



Funasaka et al._Supplemental Figure 3

Supplemental Table 1. PCR primers

target	5' primer	3' primer
DRAM	CATCCCCATGATTGTCTGTG	AAAGGCCACTGTCCATTCAC
PUMA	GACGACCTCAACGCACAGTA	CTGGGTAAGGGCAGGAGTC
p21	GACACCACTGGAGGGTGACT	CTGCCTCCTCCCAACTCAT
LC3	CTGTTGGTGAACGGACACAG	CTGGGAGGCATAGACCATGT
Beclin-1	CGGCTCCTATTCCATCAAAA	AATTGTGAGGACACCCAAGC
Atg3	TTTGGCTATGATGAGCAACG	GTGGCAGATGAGGGTGATTT
Atg5	TGATCCTGAAGATGGGGAAA	TCCGGGTAGCTCAGATGTTC
Atg7	GAACATGGTGCTGGTTTCCT	CATCCAGGGTACTGGGCTAA
Atg12	CTTACGGATGTCTCCCCAGA	TGTCTCCCACAGCCTTTAGC
HSF1	GCCATGAAGCATGAGAATGA	CTGCACCAGTGAGATCAGGA
HSP70	GAAAATGAGGAGCCAATGGA	TGTCTGCTGCTGTTGCTCTT
Tpr	AGTTGGGACCACCAGTTCAG	TGCCACCTATTCCTGGAGTC
GAPDH	CAGCCTCAAGATCATCAGCA	TGTGGTCATGAGTCCTTCCA