Appendix Contents

Appendix Figure S1 and the figure legend.Appendix Figure S2 and the figure legend.Appendix Figure S3 and the figure legend.



Appendix Figure S1 MG132 and chloroquine both block FUNDC1 degradation.

HeLa cells were treated with 10 μ M CHX for 12 hr, with MG132 (10 μ M) or chloroquine (10 μ M), and then the FUNDC1 protein levels were detected by western blotting.



Appendix Figure S2 Mutation of K119 to R strongly inhibited FUNDC1 degradation.

(A) Quantification of FUNDC1- Δ LIR-myc and K119R- Δ LIR-myc as indicated in Fig 4D (mean ± SEM, from 3 independent experiments, Student's t-test, ***P*< 0.01). (B) Quantification of FUNDC1- Δ LIR-myc and K119R- Δ LIR-myc as indicated in Fig 4E (mean ± SEM, from 3 independent experiments, Student's t-test, **P*< 0.05, ****P*< 0.001)



Appendix Figure S3 K119R mutant was more effective at inducing mitophagy than wild-type FUNDC1.

(A) Quantification of GFP-LC3 aggregates surrounding mitochondria in myc-vector, FUNDC1-myc or K119R-myc positive cells treated as in (Fig 4G) with ImageJ (mean \pm SEM; n = 200 cells from three independent experiments, Student's t-test, * *P*< 0.05, *** *P*< 0.001). (B) Quantification of Tim23 and Tom20 as indicated in Fig 4H (mean \pm SEM, from 3 independent experiments, Student's t-test, * *P*< 0.05, *** *P*< 0.001).