A Charcot-Marie-Tooth-causing Mutation in HSPB1 Decreases Cell Adaptation to Repeated Stress by Disrupting Autophagic Clearance of Misfolded Proteins

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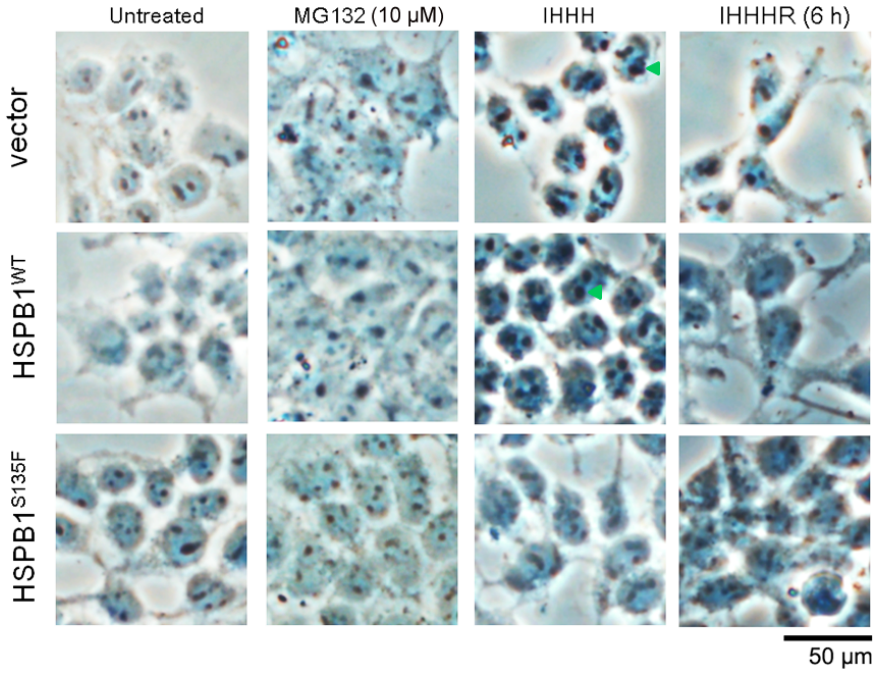

Figure S1. Stress-induced aggresomes in HEK293T cells were shown as dark inclusions by phase contrast microscope (indicated by green triangles). Dark inclusions in heated cells with vector or HSPB1^{WT} disappeared after recovery of 6 h. There are some dark dots scattered in HSPB1^{S135F} cells, but obviously stress-induced formation of aggresomes was absent. Scale bar: 50 μm.

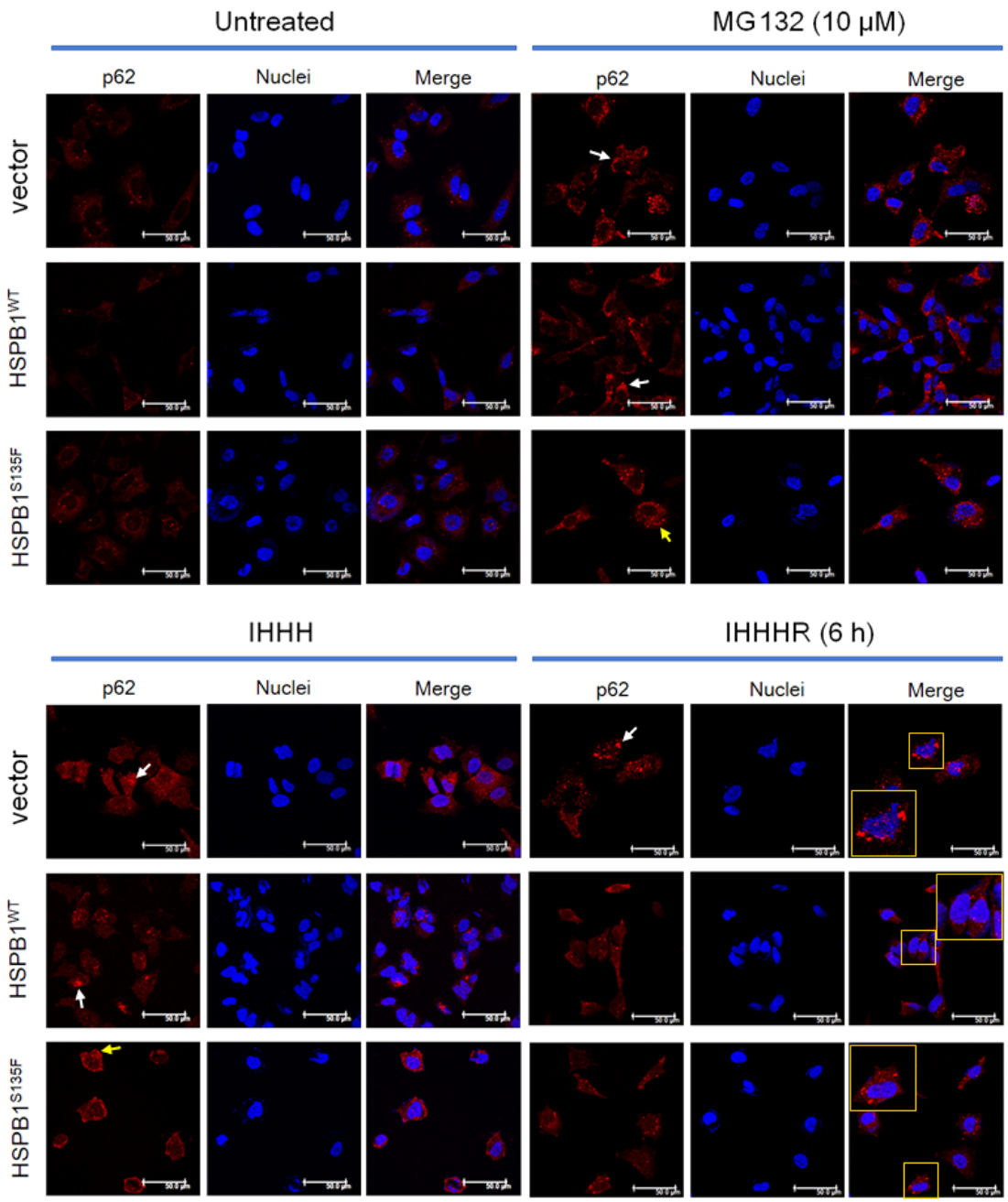

Figure S2. HSPB1^{S135F} prevents perinuclear transport of p62 in SH-SY5Y cells under stress condition. Stress induced perinuclear accumulation of p62 punctuate inclusions in vector and HSPB1^{WT} cells was indicated by white arrows. Yellow arrows show uniform distribution of p62 in HSPB1^{S135F} cells. After recovery of 6 h, fewer punctuate inclusions was observed in HSPB1^{WT} cells compared with vector and HSPB1^{S135F} cells. Besides, p62 punctuate inclusions located around nuclear in cells with vector, while away from nuclear in cells with HSPB1^{S135F}. Insets are magnified images. Scale bars: 50 μm.