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Supplementary Data

Rab6 is a Modulator of the Unfolded Protein Response: Implications for Alzheimer's Disease

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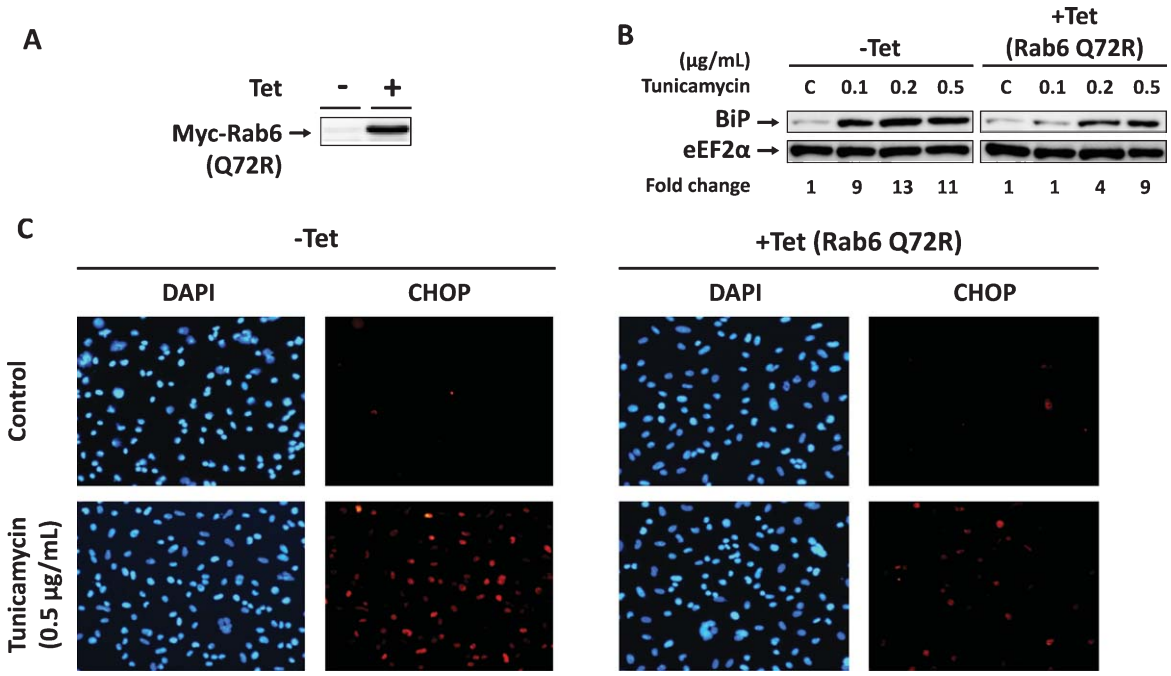
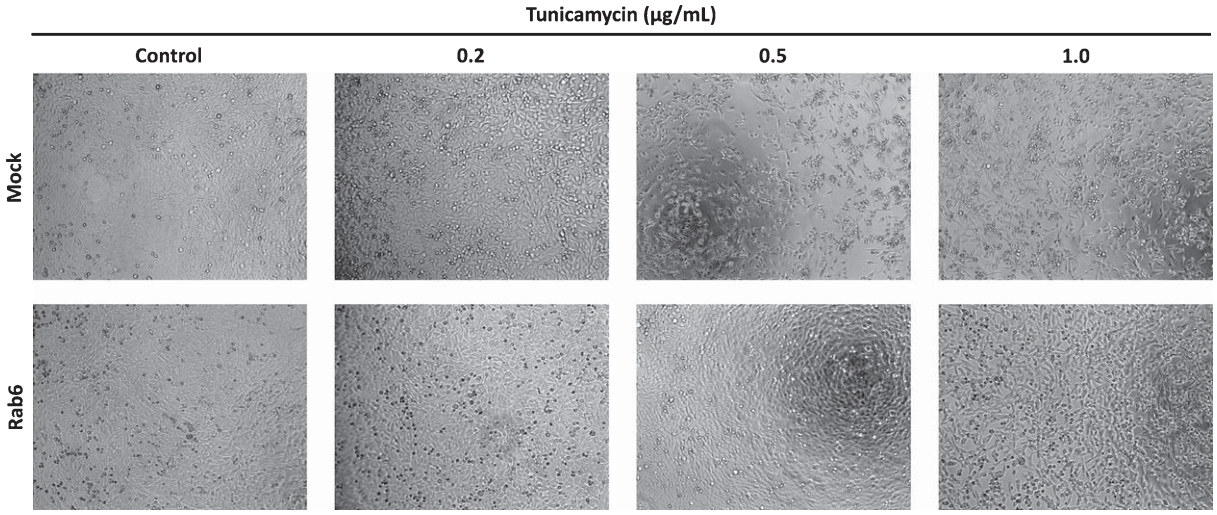
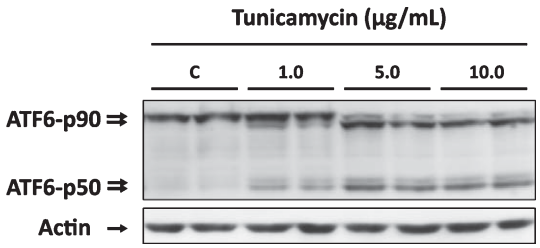


Supplementary Figure 1. Stable inducible Rab6 Q72R overexpression attenuates UPR induction. A) TREx-HeLa-Rab6 Q72R cells were cultured in the absence (−Tet) or presence (+Tet) of tetracycline and overexpression of Rab6 Q72R was assessed by Western blotting. ER stress was induced by treatment with 0.1, 0.2, or 0.5 µg/mL tunicamycin for 20 h. B) Upregulation of the UPR marker BiP was analyzed on Western blot. Equal amounts of protein were loaded in each lane and eEF2α was used as a loading control. C) The increase in CHOP positive nuclei was assessed by immunofluorescence. Nuclei were counterstained with DAPI.



Supplementary Figure 2. Rab6 overexpression alleviates UPR induced toxicity. HeLa cells were transfected with Rab6 or empty vector (mock) and the UPR was induced by tunicamycin treatment as indicated. The effect of Rab6 overexpression on tunicamycin induced cell toxicity was determined by phase contrast microscopy. Representative pictures of $n = 6$ wells are shown.



Supplementary Figure 3. ATF6 cleavage is elevated at higher tunicamycin concentrations. CHO-ATF6 cells were treated with the indicated concentrations tunicamycin for 6 h and ATF6 cleavage was assessed on Western blot in biological duplicate. Equal amounts of protein were loaded in each lane and actin was used as a loading control.