

**Figure S4.** Colocalization of endogenous MAP1LC3B with CHRN-positive puncta does not increase strongly in the presence of SH3GLB1 phosphomutants or chloroquine. Mice were either kept untransfected or TA muscles were transfected with either T145A or T145E. Five days later, animals received either saline or chloroquine injections for a 5-day period. Four days after the start of the saline or chloroquine treatment, CHRN were labeled using BGT-AF647. One day later, muscles were harvested, fixed, longitudinally sliced, and then immunostained against MAP1LC3B. The graph shows a colocalization analysis of MAP1LC3B-immunopositive CHRN puncta. Mean ± S.E.M. (n = 3 muscles for all conditions; statistical analysis employed ANOVA. \* P < 0.05; \*\* P < 0.01).