



Figure S2. No rescue of muscle degeneration by Ret^{WT}.

(A-D), *Drosophila* hemi-thoraces stained with phalloidin at low magnification (upper panels) showing overall IFM morphology and at higher magnification (lower panels) for assessment of myofibril and sarcomere morphologies. Overexpression of *UAS-Ret^{WT}* under control of *Mef2-Gal4* does not modify normal muscle morphology (C) compared to controls (A). Myofibril degeneration in *Pink1* mutants (B) is not rescued by *Ret^{WT}* overexpression (D). Scale bars, upper panel: 100 μ m, lower panels: 10 μ m. (E) Percentage of flies with phenotype “wild type” (blue) or “degenerated” (red). (F) Western blot analysis of Ret expression in thorax homogenates from *Mef2-Gal4* controls, *Mef2>Ret^{MEN2B}* and *Mef2>Ret^{WT}*, indicating comparable levels of overexpression of the Ret constructs, a tubulin antibody was used as loading control.