



Figure S2: Analysis of synaptic retraction severity

(A) Analysis of the severity of synaptic retractions on muscle 4, muscle 6/7 and muscle 1 in controls, $ank2^{\Delta L}$ and ARD deletion mutants in the $ank2^{\Delta L}$ mutant background (n = 72–111 muscle 6/7 NMJs, 12–19 animals; n = 66–101 muscle 4 NMJs, 11–19 animals; n = 71–104 muscle 1 NMJs; 12–19 animals).

(B) Analysis of the frequency of synaptic retractions on muscle 4, muscle 6/7 and muscle 1 in controls, $ank2^{\Delta XL}$ and ARD deletion mutants in the $ank2^{\Delta XL}$ mutant background (n = 54 muscle 6/7 NMJs, 9 animals; n = 54 muscle 4 NMJs, 9 animals; n = 54 muscle 1 NMJs, 9 animals).

Error bars indicate SEM; *p < 0.05, **p < 0.01, ***p < 0.001 (ANOVA); black asterisks represent comparisons to controls; red asterisks represent comparisons to $Ank2-L$ mutants.