



**Figure S3. SYD-1 and SYD-2 act in the same pathway to regulate axonal and dendritic lysosome content; CDK-5 can mostly substitute for loss of PCT-1 (Pictaire kinase) but PCT-1 cannot substitute for loss of CDK-5.**

**(A)** Drawing illustrates the location and anatomy of the cholinergic motor neurons imaged in this figure. Dashed boxes outline the regions imaged.

**(B and C)** Representative, identically-scaled images and quantification of CTNS-1-RFP lysosomal puncta and total fluorescence per micron in the dorsal axons **(B)** and ventral dendrites **(C)** of the indicated genotypes. CTNS-1-RFP is expressed from the integrated transgene *ceIs56*. Data are means and SEMs from 13-14 animals per region. Asterisks over bars indicate values significantly different from *unc-16*. Asterisks over brackets denote P values for the selected comparisons: \*,  $P < .05$ ; \*\*,  $P < .01$ ; \*\*\*,  $P < .0001$ ; n.s., not significant.