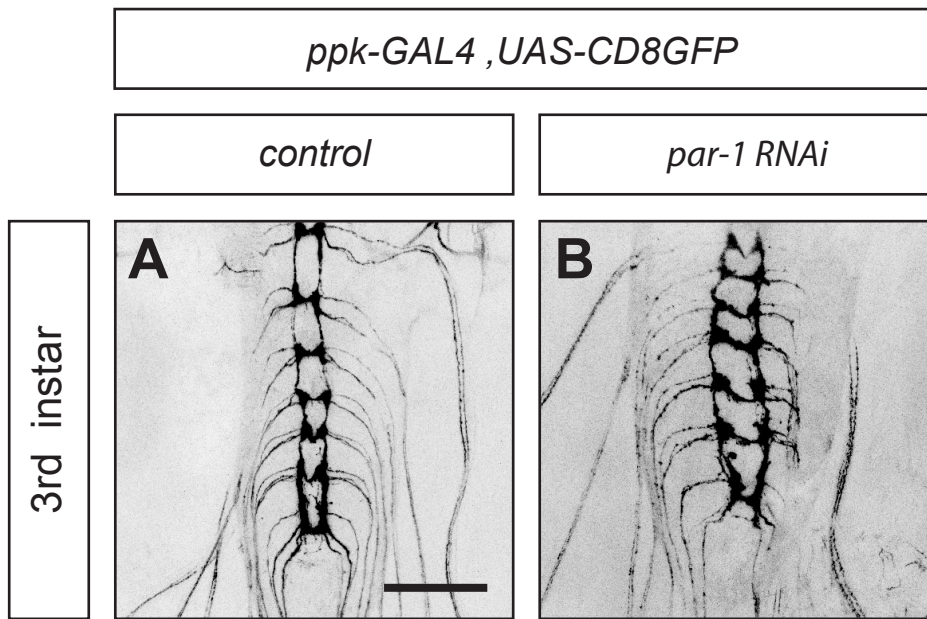


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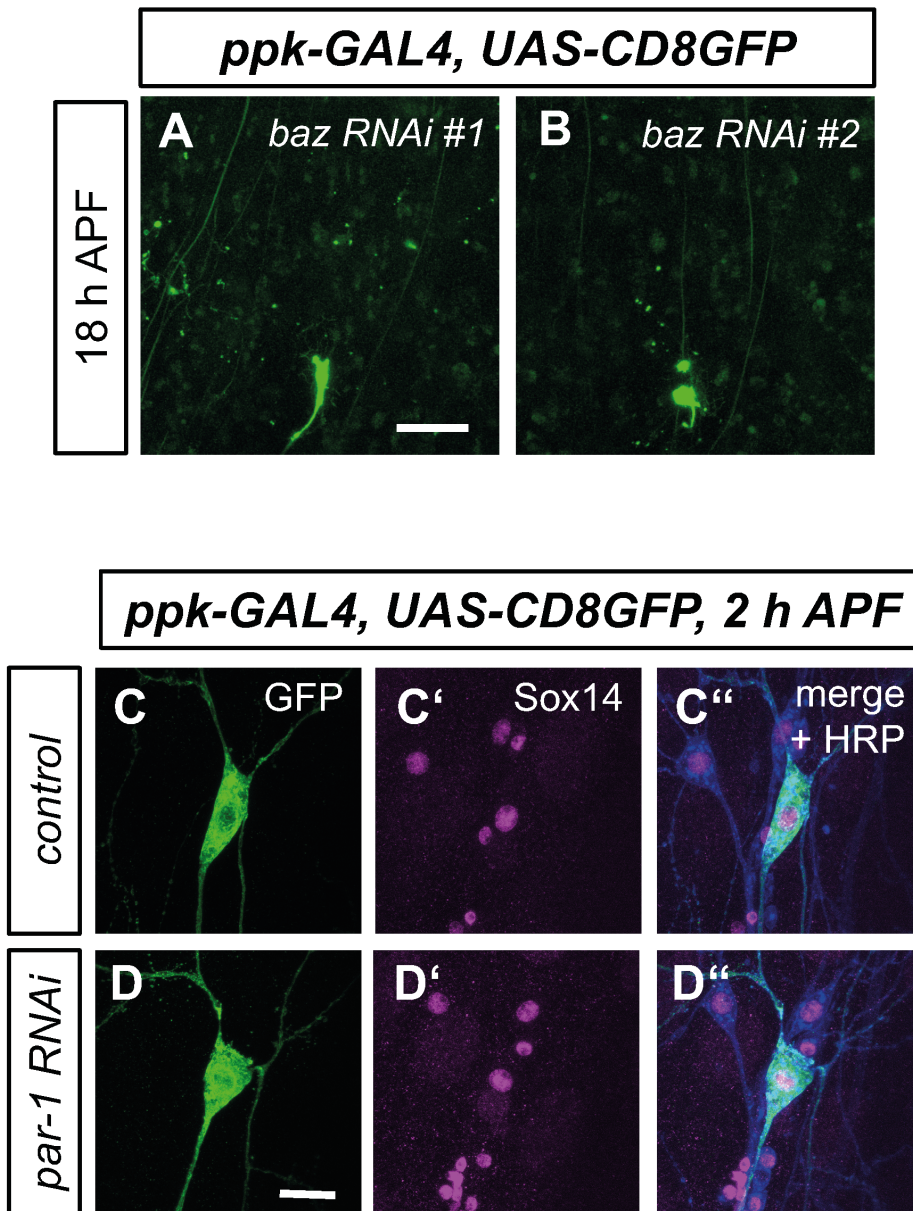
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Herzmann_Appendix Figure S1



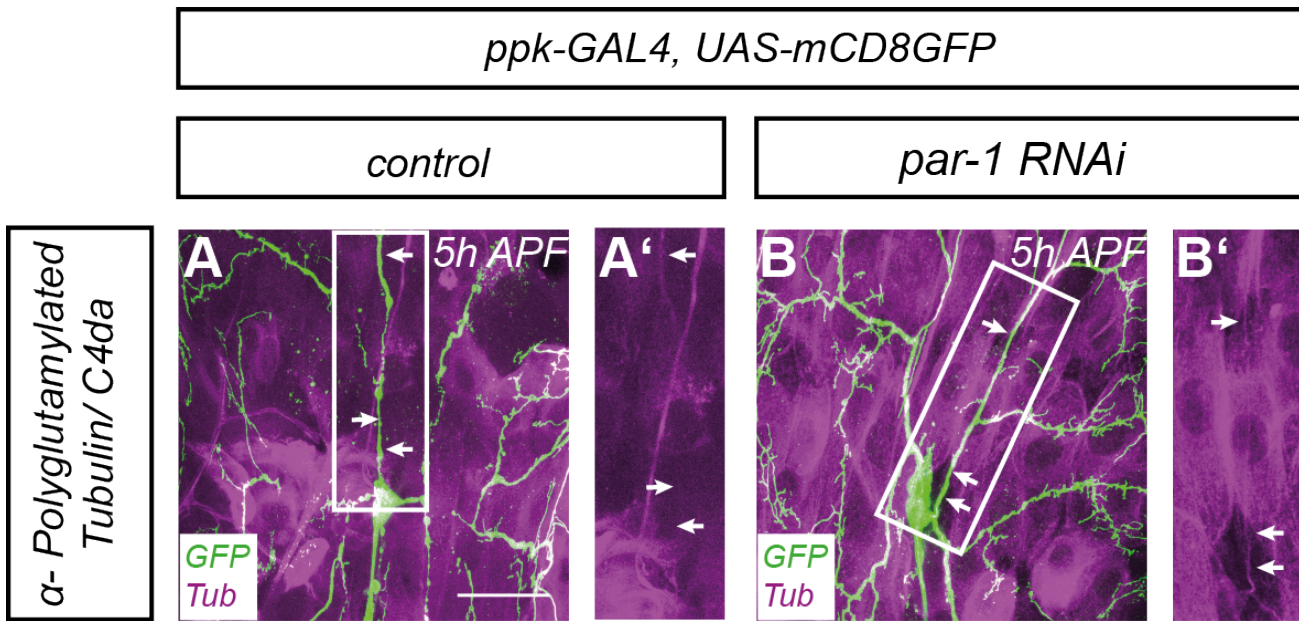
Appendix Figure S1. Class IV da neuron axons in control and upon *par-1 RNAi*. Axons of control (A) c4da neurons and c4da neurons expressing *par-1 RNAi* (B) were labeled by GFP under the control of *ppk-GAL4* and imaged live in third instar larvae. Scale bar, 100 μm .

Herzmann_Appendix Figure S2



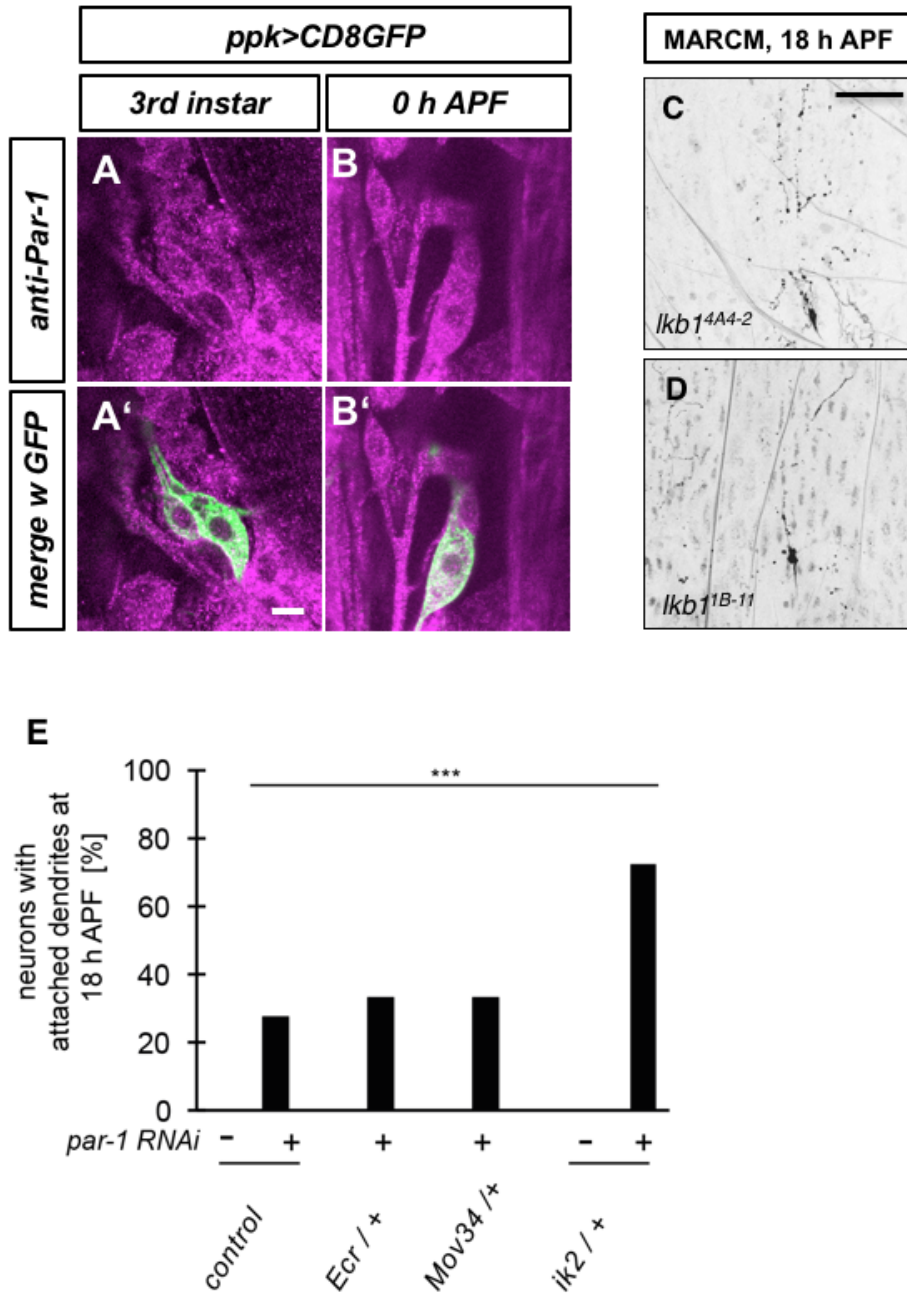
Appendix Figure S2. Bazooka is not required for dendrite pruning, and PAR-1 does not affect Sox14 expression. **A, B** Two different RNAi lines targeting bazooka do not affect c4da neuron dendrite pruning at 18h APF. **A** Bazooka RNAi #1 (NIG 5055R-1), 0/27 neurons with dendrites attached to the soma. **B** Bazooka RNAi #2 (VDRC 2914), 1/35 neurons with dendrites attached to the soma. **C – C''** Sox14 expression at 2 h APF in control c4da neurons. **D – D''** Sox14 expression at 2 h APF in c4da neurons expressing *par-1* RNAi.

Herzmann_Appendix Figure S3



Appendix Figure S3. PAR-1 knockdown leads to accumulation of microtubules containing polyglutamylated α -tubulin during c4da neuron dendrite pruning. C4da neuron morphology at 5 h APF was visualized by UAS-CD8GFP expressed under *ppk-GAL4*, and microtubules were labeled by an antibody against polyglutamylated α -tubulin. Figures **A**, **B** show merged images of GFP expression with anti-polyglutamylated α -tubulin staining. Stainings of polyglutamylated α -tubulin in boxed regions are shown enlarged on the right (**A**, **B'**). The positions of c4da neuron dendrites is indicated by arrows. **A** Control c4da neuron. **B** C4da neuron expressing *par-1 RNAi*. The scale bar is 50 μ m.

Herzmann_Appendix Figure S4



Appendix Figure S4. Assessment of potential PAR-1 activation mechanisms.

A, B Expression of endogenous PAR-1 in c4da neurons at the third instar (**A**) and the white pupal stage (**B**). Lower panels **A'** and **B'** show merge with GFP expressed under *ppk*-GAL4.

C, D Loss of *LKB1* causes mild dendrite pruning defects. C4da neuron mutant MARCM clones of two *lkb1* alleles are shown (*lkb1*^{4A4-2}, 23% with dendrites attached to the cell body at 18 h APF; *lkb1*^{1B-11}, 20% with dendrites attached to the cell body at 18 h APF). **E** Heterozygosity of *ik2* (allele *ik2*^{alice}), but not of *EcR* (*EcR*³¹) or the proteasome subunit *Mov34* (*mov34*^{k08003}) enhances the pruning defect caused by *par-1* RNAi. *** P < 0.0005, Fisher's exact test.