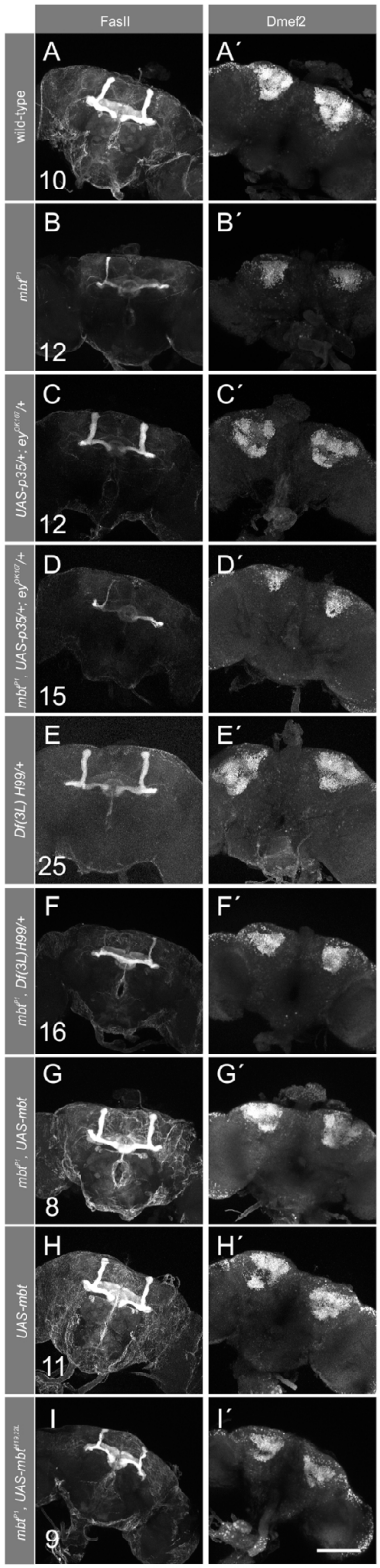

Fig. S1. Analysis of the adult mushroom body phenotype. Projections of confocal images of adult brains at the level of the lobe system (labeled with FasII) and the Kenyon cell layer (labeled with Dmef2) are shown. (**A-B′**) The lobe system and the Kenyon cell cluster are both severely reduced in mbt^{P1} brains compared with the wild type. Frequently, α/β-lobes are completely missing. (**C**,**C′**) Expression of *UAS-p35* in a wild-type background (using ey^{OK107} that post-embryonically drives expression in Kenyon cells and not in MBNBs) does not interfere with the adult MB structure. (**D**,**D′**) Expression of *UAS-p35* in mbt^{P1} animals does not rescue the mbt^{P1} phenotype. (**E-F′**) *Df(3L)H99* does not change adult MB structure in the wild type. No rescue of MB size is observed with *Df(3L) H99* in mbt^{P1} background. (**G**,**G′**) Neuroblast-specific expression of an *mbt*-transgene in mbt^{P1} background with *worniu-GAL4* rescues the MB size to wild-type level. (**H**,**H′**) No influence on MB structure was observed upon expression of the *mbt* transgene in wild-type background. (**I**,**I′**) Expression of $mbt^{H19,22L}$ resulted in partial rescue of MB size. The numbers of brains analyzed are indicated in the images. Scale bar: 100 µm.